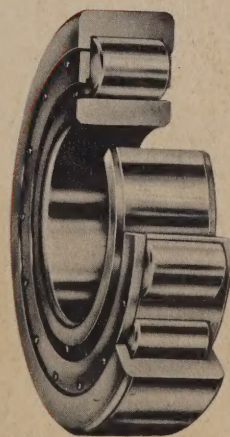
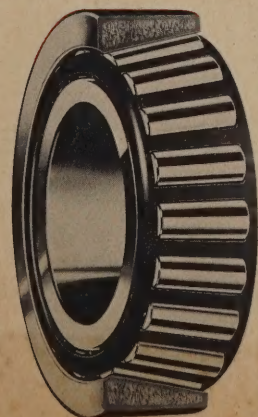
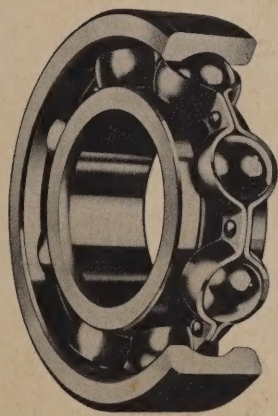


BEARINGS, INC.



BEARINGS, INC.

EQUIVALENT CHART

FRACTIONAL INCHES AND MILLIMETERS

Fractional Inches	Decimal Inches	Milli-Meters
1/64	.015625	
1/32	.03125	
	.03937 — 1	
3/64	.046875	
1/16	.0625	
5/64	.078125	
	.07874 — 2	
3/32	.09375	
7/64	.109375	
	.11811 — 3	
1/8	.125	
9/64	.140625	
5/32	.15625	
	.15748 — 4	
11/64	.171875	
3/16	.1875	
	.19685 — 5	
13/64	.203125	
7/32	.21875	
15/64	.234375	
	.23622 — 6	
1/4	.250	
17/64	.265625	
	.27559 — 7	
9/32	.28125	
19/64	.296875	
5/16	.3125	
	.31496 — 8	
21/64	.328125	
11/32	.34375	
	.35433 — 9	

Fractional Inches	Decimal Inches	Milli-Meters
23/64	.359375	
3/8	.375	
25/64	.390625	
	.3937 — 10	
13/32	.40625	
27/64	.421875	
	.43307 — 11	
7/16	.4375	
29/64	.453125	
15/32	.46875	
	.47244 — 12	
31/64	.484375	
1/2	.500	
33/64	.515625	
	.51181 — 13	
17/32	.53125	
35/64	.546875	
	.55118 — 14	
9/16	.5625	
37/64	.578125	
	.59055 — 15	
19/32	.59375	
39/64	.609375	
5/8	.625	
	.62992 — 16	
41/64	.640625	
21/32	.65625	
	.66929 — 17	

Fractional Inches	Decimal Inches	Milli-Meters
43/64	.671875	
11/16	.6875	
45/64	.703125	
	.70866 — 18	
23/32	.71875	
47/64	.734375	
	.74803 — 19	
3/4	.750	
49/64	.765625	
25/32	.781250	
	.7874 — 20	
51/64	.796875	
13/16	.8125	
	.82677 — 21	
53/64	.828125	
27/32	.84375	
55/64	.859375	
	.86614 — 22	
7/8	.8750	
57/64	.890625	
	.90551 — 23	
29/32	.90625	
59/64	.921875	
15/16	.9375	
	.94488 — 24	
61/64	.953125	
31/32	.96875	
	.98425 — 25	
63/64	.984375	

DECIMAL EQUIVALENTS OF MILLIMETERS

MM.	Inches	MM.	Inches	MM.	Inches	MM.	Inches	MM.	Inches	MM.	Inches
25 — .98425		38	1.49606	51	2.00787	64	2.51968	77	3.03149	89	3.50393
26	1.02362	39	1.53543	52	2.04724	65 — 2.55905		78	3.07086	90 — 3.54330	
27	1.06299	40 — 1.57480		53	2.08661	66	2.59842	79	3.11023	91	3.58267
28	1.10236	41	1.61417	54	2.12598	67	2.63779	80 — 3.14960		92	3.62204
29	1.14173	42	1.65354	55 — 2.16535		68	2.67716	81	3.18897	93	3.66141
30 — 1.18110		43	1.69291	56	2.20472	69	2.71653	82	3.22834	94	3.70078
31	1.22047	44	1.73228	57	2.24409	70 — 2.75590		83	3.26771	95 — 3.74015	
32	1.25984	45 — 1.77165		58	2.28346	71	2.79527	84	3.30708	96	3.77952
33	1.29921	46	1.81102	59	2.32283	72	2.83464	85 — 3.34645		97	3.81889
34	1.33858	47	1.85039	60 — 2.36220		73	2.87401	86	3.38582	98	3.85826
35 — 1.37795		48	1.88976	61	2.40157	74	2.91338	87	3.42519	99	3.89763
36	1.41732	49	1.92913	62	2.44094	75 — 2.95275		88	3.46456	100 — 3.93700	
37	1.45669	50 — 1.96850		63	2.48031	76	2.99212				

1 Inch = 25.400 mm.

NEED HELP ON BEARINGS—CALL US

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BEARINGS, INC.

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 Indianapolis 46204 930 N. Illinois St. 317 634-4393
 Kokomo 46901 1200 East Blvd. 317 457-8367
 Muncie 47302 1100 S. Liberty St. 317 284-1425
 Terre Haute 47808 1476 Wabash Ave. 232-2035

MARYLAND

Baltimore 21218 2522 Greenmount Ave. 301 243-7220

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 Newark 07105 664 Ferry St. 201 624-0955
 Trenton 08638 1071 Brunswick Ave. 609 396-8133

OHIO

Akron 44311 20 Fair St. 216 535-4153
 Bedford 44146 26310 Broadway 216 232-4800
 Canton 44707 913 Ninth St., S.W. 216 454-6194
 Cincinnati 45214 1417 Central Parkway 513 721-8134
 Cleveland E. 44115 3634 Euclid Ave. 216 881-2828
 Cleveland W. 44111 3065 W. 117th St. 216 252-6600
 Columbus 43215 175 Cleveland Ave. 614 221-7635
 Dayton 45408 1700 S. Broadway 513 222-3731
 Elyria 44035 591 Cleveland St. 216 365-1031
 Hamilton 45011 706 East Ave. 513 895-6911
 Lima 45801 142 S. Elizabeth 419 229-2060
 Lockland (Cinci.) 45215 800 Shepherd Lane 513 761-5200
 Mansfield 44902 137 W. Sixth St. 419 524-5171
 Middletown 45042 1901 Yankee Rd. 513 424-1845
 Newark 43055 116 S. 27th St. 614 344-9416
 Painesville 44077 2098 North Ridge Rd. 216 352-3191
 Springfield 45504 435 W. North St. 513 325-7373
 Toledo 43624 1302 Washington St. 419 248-5311
 Warren 44483 2927 Mahoning Ave., N.W. 216 394-1527
 Youngstown 44502 2007 South Ave. 216 744-4371
 Zanesville 43701 1672 Linden Ave. 614 452-8437

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 Johnstown 15901 213 Vine St. 814 539-1101
 King of Prussia 19406 443 S. Gulph Rd. 215 265-0410
 Lancaster 17601 401 Service Rd. 717 393-9631
 Monaca 15061 1038 Pennsylvania Ave. 412 775-6490
 Philadelphia 19124 H & Cayuga St. 215 744-6330
 Philadelphia S. 19145 2522 Tasker St. 215 467-8870
 Pittsburgh 15232 5536 Baum Blvd. 412 681-4900
 Reading 19601 1301 Butler St. 215 376-8211
 Williamsport 17701 609 High St. 717 323-3721
 Wilkes Barre 18702 223 Spring St. 717 824-7851
 York 17402 1727 Whiteford Rd. 717 755-1902

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 Wheeling 26003 518 Main St. 304 233-4250

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 Montgomery 36104 330 Clayton St. 205 263-4742

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Little Rock 72203 1000 Ringo St. 501 374-6383

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 Mulberry 33860 201 First St. N.W. 813 425-3235
 Orlando 32801 625 West Central Blvd. 305 425-1623
 Tampa 33602 1035 Twiggs 813 223-2534

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 Atlanta 30303 276 Memorial Dr., S.W. 404 522-7620
 Augusta 30901 518 Skyview Dr. 404 722-2001
 Chamblee 30005 3844 Green Industrial Way 404 451-5411
 Columbus 31901 1330—10th Ave. 404 324-4411
 Macon 31201 340 Walnut St. 912 745-2335
 Savannah 31401 1119 Louisville Rd. 912 234-1371

LOUISIANA

Baton Rouge 70805 2905 Weller Ave. 504 357-2257
 New Orleans 70130 401 Howard St. 504 523-6363
 New Orleans E. 70126 6215½ Chef Menteur Hwy. 504 245-0095

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Greenville 38701 257 South Walnut St. 601 332-1536

NORTH CAROLINA

Asheville 28801 237 Haywood St. 704 254-8836
 Charlotte 28206 501 Wolfberry St. 704 372-1310
 Greensboro 27405 880 Huffman St. 919 274-4686
 Hickory 28601 993 13th St., S.W. 704 328-2566
 Raleigh 27604 2307 Campbell St. 919 828-0544
 Winston-Salem 27103 124 Hawthorne Rd., S.W. 919 722-7158

SOUTH CAROLINA

Columbia 29201 932 Gervais St. 803 765-2417
 Greenville 29601 405 Pendleton St. 803 239-9681
 Spartanburg 29301 228 Reidville Road 803 585-6471

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 Kingsport 37662 540 E. Main St. 615 246-6195
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 Memphis 38106 7 E. H. Crump Blvd. 901 948-4515
 Memphis (North) 38107 581 Pear Ave. 901 525-4651
 Nashville 37203 511-8th Ave., S. 615 254-5791

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 Richmond 23222 1503 Chamberlayne Ave. 703 644-7837
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 East St. Louis 62201 437 North 9th St. 618 271-6341

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 Lexington 40502 2210 Idle Hour Shopping Ctr. 606 266-1151
 Louisville 40217 2428 Bowman Ave. 502 637-8741

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 Jamestown 14701 302 Foote Ave. 716 484-0166

NEED HELP ON BEARINGS—CALL US

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CATALOG 63

FOREWORD

Frequently we wonder whether any one reads a Catalog Foreword. In case any one does we want to explain that this catalog, like its predecessors, is a condensation of the catalogs of companies for whom we are and have been authorized distributors for many years.

The data shown is authentic, having been taken from information contained in manufacturers' catalogs. However, we can not be responsible for errors undiscovered in the makeup, although every page was checked and rechecked carefully.

Load ratings in most cases were omitted intentionally. We are prepared to furnish complete engineering information if you will tell us the details of your bearing problems.

For best results give our engineers an opportunity to work with you. Their knowledge of anti-friction bearing applications and the complete stocks of our conveniently located branches provide for you a service that is pre-eminent in the field.

If you have any ideas as to how to make this catalog more usable we would welcome them.

AUTHORIZED DISTRIBUTOR

Listed on the next page, in alphabetical order, are many of the manufacturers whose products are distributed by us. As you can readily see, it includes the leading manufacturers in the bearing and bearing accessories field.

We are Authorized Distributors of the products of these manufacturers. As "Authorized Distributors" we have a continual interest in prolonging the life of bearings in your equipment; we keep abreast of new bearing developments so that we can ship from stock the latest design of the bearings made by the leading American manufacturers.

But more than that, we are "Bearing Specialists" . . . Specialists in that we sell only bearings and products used in their installation and maintenance . . . Specialists in that our sales engineers are fully competent to advise you on all phases of bearing specification, replacement and maintenance.

Call on us when you have a problem involving bearings . . . whether it be for existing equipment, or equipment you are planning to design or build. We welcome the opportunity to discuss problems of design and specifications with your maintenance men or engineers.

MANUFACTURERS' REPRESENTATIVES OR AUTHORIZED DISTRIBUTORS FOR:

Alpha-Molykote Corp.	Messinger Bearings, Inc.
American Roller Bearing Co.	Miniature Precision Bearing Co.
Amplex Div. Chrysler Corp. (Oilite®)	Never-Seez Compound Corp.
Andrews Bearing Company	New Departure Division — G. M. C.
Auburn Ball Bearing Co.	Nice Ball Bearing Company
B & B Industries, Inc.	Nirol Mfg. Co.
The Ball and Roller Bearing Co.	Norma-Hoffmann Bearings Corp.
The Barden Corp.	Orange Roller Bearing Co.
Bunting Brass and Bronze Co.	Owatonna Tool Co.
Bushings, Inc.	Polymer Corp. of Penna.
Chicago Gasket Co.	Pope Machinery Co.
Chicago Rawhide Mfg. Co.	Rex Chainbelt Inc.
Cooper Split Roller Bearing Corp.	Rollway Bearing Co., Inc.
Dodge Manufacturing Corp.	Rotary Seal Division
Dow Corning Corp.	Royersford Fdry. & Mach. Co.
The Fafnir Bearing Co.	Saginaw Products Corp.
Gardan Mfg. Co.	The Schatz Mfg. Co.
Garlock, Inc.	SKF Industries, Inc.
Gits Bros. Mfg. Co.	Split Ball Bearing Corp.
The Heim Company	Standard Pressed Steel Co. — (Hallowell Collars)
Hyatt Division — G. M. C.	Stillman Rubber Co. ("O" Rings)
Ideal Industries, Inc. (Live Centers)	Sturdimatic Tool Co.
International Research and Development Corp.	Thomson Industries, Inc.
Johns-Manville Corp. (Seals)	Timken Roller Bearing Co.
Kaydon Engineering Corp.	The Torrington Co.
Keystone Electric Co.	United Aircraft Products, Inc.
Kilian Mfg. Corp.	United American Metals Corp.
Kilian Steel Ball Co.	United Motors Service — G. M. C.
Link-Belt Company	Victor Mfg. and Gasket Co.
Loctite Corp.	Waldes Kohinoor, Inc.
Lucian Q. Moffitt, Inc.	Wheeler Service, Inc.
McGill Mfg. Co., Inc.	Whitnon Mfg. Co.
Marlin-Rockwell Co.	Whittet-Higgins Company
Master Lubricants Company	

IMPORTANT!

**In ordering BEARINGS for industrial usage,
either for new applications or replacement**

Please Note:

There is a difference in precision and assembly of anti-friction bearings carrying the same part number. For example, ball and straight roller types have variable degrees of precision on runout, and of ball or roller clearance, depending on the application for which they are used.

Tapered roller bearings are likewise made in different degrees of precision on runout. In ordering bearings, specify not only the bearing make and part number, but also the make and type of machine and position of application so that the correct bearings can be obtained for the purpose.

Reduce Your Bearing Purchases

by observing the above when ordering.



✱ What it Costs To Carry Inventory

A survey of eight plants shows that for every \$100 worth of materials bought, the average yearly inventory cost is \$19.37.

This average carrying charge is largely accounted for by these costs:

✓ Interest on capital invested	→ \$3.5 - 7
✓ Taxes	→ 0.5 - 2.55
✓ Insurance	→ 0.2 - 1.0
✓ Warehousing	→ 0.2 - 2.25
✓ Handling	→ 2.0 - 4.0
✓ Clerical and inventory-taking	→ 1.0 - ?
✓ Obsolescence	→ 3.85-10.0
✓ Physical deterioration, pilferage	→ 1.5 - 5.0



You can cut your costs on bearing inventory ... 2 ways!

Inventory costs soak up a lot of dollars that could do much more for your company in other ways. We now perform inventory cost-cutting services for many of our customers and are ready to do the same for you.

First, a bearing survey of the bearings used in the equipment in your plant. We convert manufacturers' parts numbers to bearing numbers. This survey usually shows many identical bearings being held in inventory for different equipment when only one or two bearings will satisfy your immediate needs. A complete record

is made of all bearings you actually require and we keep this record up-to-date.

Second, you keep in inventory only a minimum number of bearings to take care of emergencies. It is guaranteed that the branch nearest your plant will stock all the bearings shown on your survey, ready for immediate delivery day or night!

Call or write for a sales engineer to discuss this important, money-saving program NOW! Check our branch locations for the one nearest you.

NEED HELP ON BEARINGS—CALL US

OUR POLICY

To give customers their money's worth

To help them get maximum life from the bearings we sell

To be available at anytime, day or night, in an emergency

To have in stock, or know where we can get quickly, any bearing one of our 25,000 customers might need in a hurry.

GENERAL INDEX**AMERICAN****Page**

A-5128 to A-5352	88
AC-5128 to AC-5352	88
AD-1220-X to AD-1336-X	90
AD-5128 to AD-5352	88
AD-5220-X to AD-6236-X	90
ADD-5128 to ADD-5352	88
AM-5128 to AM-5352	88
CC-128 to CC-352	87
CD-128 to CD-352	87
CDD-128 to CDD-352	87
CM-128 to CM-352	87
EC-600 to EC-691	86
ECS-600 to ECS-691	86
HC-200 to HC-338	85
HCS-200 to HCS-338	84
NB-52 to NB-178	89
NB-52-S to NB-178-S	89
ND-6375 to ND-6650	89
ND-6375-S to ND-6650-S	89
NDB-72 to NDB-178	89
NDB-72-S to NDB-178-S	89
SC-100 to SC-166	83
SCS-100 to SCS-166	83

AMERICAN SEALANTS

Loctite	328-329
---------	---------

AUBURN

T-100-00 to T-100-56	169
T-101-1 to T-101-67	169
T-114-2 to T-114-44	169
T-114-RG-0010 to T-114-RG-2015	169
T-200-RG-DD-2 to T-200-RG-DD-12	169

BABBITT

Stonewall	288
Gov't Genuine	289
Manganese	289
Tintite	289
Damtite	289

BALLS 4**BALL BUSHINGS** 378**BARDEN**

34B to 102 B	8
37FF to 206FF (T)	8
34H to 209H (JB)	8
34K to 205K (SS)	8
34-5T to 209T (SS)	8
A538Z to A543Z (T) (TX80)	6
R1-5H to SR4H (B)	6
SFR1-5FF to SFR6FF (T-TA)	6
SFR0K to SFR188K (SS)	7
SR1-5FF to SR8FF (T-TA)	6
SR0K to SR188W (SS)	7
SR1-4TA to SR166TA (S) (SS)	7

BASE PLATES for PILLOW**BLOCKS** 212**BEARHUG LOCKNUTS** 375**BEARING PULLERS** 332-336**BLOWER BOXES** 242-244**BRONZE****Bars** 292-293**Sleeve Bearings** 294**BUNTING****Aluminum-Tin Bars** 291**Cored Bronze Bars** 292**Electric Motor Bearings** 302-308**Graphited Bearings** 301**Grooved Bearings** 301**Industrial Type Bearings** 294-300**Solid Bronze Bars** 293**Sintered Bronze Bars** 316**Sintered Bronze Flange Bearings** 314**Sintered Bronze Plain****Bearings** 309-313**Sintered Bronze Tolerances** 313**Sintered Bronze Thrust Bearings** 315**CAM FOLLOWERS****McGill** 102**Torrington** 161**CAM YOKE ROLLERS****McGill** 103**CHICAGO RAWHIDE SEALS** 344**COOPER****Descriptive Data** 190**HB-111 to HB-2400** 194**HC-111 to HC-2400** 194**HSP-111 to HSP-2400** 195**MB-103 to MB-2400** 192**MC-103 to MC-2400** 192**MSP-103 to MSP-2400** 193**XHB-203 to XHB-2400** 196**XHC-203 to XHC-2400** 196**XHP-203 to XHP-2400** 197**CRANE HOOK BEARINGS** 181**DAMTITE BABBITT SEAL** 289**DODGE****All Steel Cartridge Units** 200**All Steel Blocks** 200**Base Plates** 212**Type C Pillow Blocks** 198**Type C Flange Units** 204**Type C Unit Mounts** 202**Double Interlock Blocks** 198**Double Interlock Flange Units** 204**DODGE, cont'd****Page**

Double Interlock Unit Mounts	201
Type E Blocks	199
Type E Flange Units	203
Type E Piloted Flange Units	203
G, GM and E Take-ups	210
SC Cylindrical Cartridge Units	207
SC 2-Bolt Flange Units	207
SC and SCM Pillow Blocks	205
SC and SCM Flange Units	206
SC and SCM Take-up Units	208
SC and SCM Take-ups	209
SC Screw Conveyor Hanger Bearings	207
SL Pillow Blocks	211
SL Flange Units	211
Special Duty Blocks	199
Special Duty Flange Units	204
Special Duty Unit Mounts	202

ELECTRIC MOTOR**CONVERSION END BELLS** 318**ELECTRIC MOTOR SLEEVE****BEARINGS** 302-308**FAFNIR**

1H, 3A	16
4CH, 5C, 7C	16
1SSS, 2SSS	241
33-3 to 33-5 (D) (DD)	15
34 to 39 (D) (DD)	15
36L to 211L	18
36LD to 211LD	18
36LL to 209LL	18
34P (PP) to 9506P (PP)	17
36T to 207T	16
36VTD to 206 TD	16
36TT to 207TT-2	16
40MS-C1 to 100MS-C1	232
40MST to 62MST	233
47MSTR to 62MSTR	233
52MSTU to 62MSTU	238
40PB to 62PB	231
102 to 117A, K or W	16
102W2 to 324W	10
120WD2 to 136WD2N	10
122WI to 128WI	10
200D (DD) to 414D (DD)	9
202DG to 313DG	14
202DDG to 307DDG	14
202G to 412G	14
202W to 419W	9
1008KL to 1207KL (B)	217
1008KLL to 1215KLL (B)	217
1008KRR to 1215KRR (B)	218
1010KR to 1203KR (B)	218
1012KLLG to 1115KLLG	219
1502 to 1524	170
5200 to 5418	12

FAFNIR, cont'd

Page

5201D to 5313D	12
5205G to 5411G	12
7201 to 7409	13
7201DB to 7420DB	13
7216PW to 7420PW	13
9100K to 9506K (D) (DD)	11
American Blower Boxes	242
B538 to B546	16
BCP4W10, BCP5W11	25
Bayley Blower Boxes	243
Buffalo Blower Boxes	243
Clarage Blower Boxes	243
C 2½ to C 3½ ₁₆	236
CO ¾ to CO 3¼ ₁₆	236
DPP3 to DPP10	25
DRN 1½ ₁₆ to DRN 2¾ ₁₆	222
DSA ¼ ₁₆ to DSA 3½ ₁₆	228
DSADD ¼ ₁₆ to DSADD 3½ ₁₆	228
DSAO 1½ ₁₆ to DSAO 4½ ₁₆	229
DSAOOD 1½ ₁₆ to DSAOOD 4½ ₁₆	229
DSP3 to DSP10	25
DSRP4 to DSRP12	25
DW4K to DW8	25
F2 to F5 (DD)	15
F33K3 to F33K5 (DD)	15
FS1K7 to FS3K (DD)	15
F 1½ ₁₆ to F 4½ ₁₆	241
Flangettes	232
FL3C3 to FL3C6	24
FLCT ½ to FLCT 1½ ₁₆	235
G1008KLLB to G1215KLLB	217
G1008KRRB to G1215KRRB	218
G1010KLL to G1204KLL	217
G1010KRR to G1207KRR	218
G4Y17, GD5M20	25
GN103KLLB to GN215HLLB	217
GN303KRRB to GN315KRRB	218
K, KP, D, DP Track Rollers	24
K3L, -2, -3, -R48	24
KP3 to KP10	24
KP3A to KP20A	24
KP16B to KP49B	24
KP16BS to KP49BS	24
KS3 to KS10	25
LAK ½ to LAK 2½ ₁₆	220
LAKH 1½ ₁₆ to LAKH 2½ ₁₆	230
LAO 1½ ₁₆ to LAO 2½ ₁₆	222
LAS ½ to LAS 2½ ₁₆	221
LC ½ to LC 2½ ₁₆	236
LCJ ½ to LCJ 2½ ₁₆	234
LCJO 1½ ₁₆ to LCJO 2½ ₁₆	234
LCJT ½ to LCJT 2½ ₁₆	235
LSA ½ to LSA 2½ ₁₆	223
LSAO 1½ ₁₆ to LSAO 3½ ₁₆	224
LTU ¾ to LTU 2½ ₁₆	238
M9100K to M9113K	11
M9301K to M9312K	11
2M9106WI-CR to 2M9324WI-CR	11
MC ¾ to MC 3¼ ₁₆	237
MMS5K to MMS8K	21
MM20EX to MM165EX	19
MM36WI-CR to MM38WI-CR	21
MM202K to MM314K	21
MM9100K-CR to MM9126K-CR	22

FAFNIR, cont'd

Page

MSTU 1½ ₁₆ to MSTU 1¼	238
MV33K3 to MV33K5 (D) (DD)	22
MVF33K3 to MVF33K5 (DD)	22
MVFS1K7 to MVFS3K (DD)	22
MVS1K7 to MVS3K (D) (DD)	22
2MM38WO-CR	22
2MM200WI-CR to	
2MM319WI-CR	21
2MM202WI-DUL to	
2MM301WI-DUL	19
2MM9100WI-CR to	
2MM9140WI-CR	22
2MM9100WO-CR to	
2MM9117WO-CR	22
2MM9504WI-CR to	
2MM9521WI-CR	21
N107KLLB to N207KLLB	217
N802 to N828	170
N902 to N928	170
N1803 to N1828	170
NLTU1 to 7	239
PB ½ to PB 1¼	231
PBS ½ to PBS 1½ ₁₆	230
PSM1103S to PSM1315S	227
PSMN103S to PSMN415S	227
RA008PP to RA115PP (B)	219
RABR ½ to RABR 1	231
RAK ½ to RAK 2½ ₁₆	220
RAS ½ to RAS 2½ ₁₆	221
RBG ½ to BRG 1½ ₁₆	240
RBGF ¾ to RBGF 1¾ ₁₆	240
RBGU ½ to RBGU 1¾ ₁₆	240
RC ½ to RC 2¾ ₁₆	236
RCJ ½ to RCJ 2¾ ₁₆	234
RCJT ½ to RCJT 2¾ ₁₆	235
RCR ¾ to RCR 1	240
RCSM ½ to RCSM 1½ ₁₆	240
RE Rod Ends	23
RPB ½ to RPB 1¾ ₁₆	231
RS ½ to RS 1¾ ₁₆	240
RSA ½ to RSA 2½ ₁₆	223
RSOA 1½ ₁₆ to RSOA 3½ ₁₆	224
RSC ¾ to RSC 1	240
RSU ½ to RSU 1¾ ₁₆	240
RTU ¾ to RTU 2½ ₁₆	238
S1D7 to S8D (DD)	15
S1K7 to S12	15
S3PP to S7PP	17
SA ¼ to SA 3½ ₁₆	225
SAD ¼ to SAD 3½ ₁₆	225
SADD ¼ to SADD 3½ ₁₆	225
SAL 1½ ₁₆ to SAL 3½ ₁₆	227
SAO ⅝ to SAO 4½ ₁₆	226
SAOD ⅝ to SAOD 4½ ₁₆	226
SAODD ⅝ to SAODD 4½ ₁₆	226
SAOL 1½ ₁₆ to SAOL 4½ ₁₆	227
SCS ⅞ to SCS 2¾ ₁₆	241
SM1008 to SM1315	215
SMN010 to SMN415	216
Sturtevant Blower Boxes	244
TU1 to 9	239
W200PP to W315PP (LL)	17
WIR204 to WIR320	10
Y-PWI Series (PP) (DB)	25

GARLOCK KLOZURES	345
GEAR PULLERS	332
GOVERNMENT GENUINE BABBITT	289
GREASE	330
HALLOWELL Shaft Collars—Solid	320
Shaft Collars—Split	320
HEIM Unibal Bearings	317
Rod Ends	317
HEX BORE BEARINGS	66
HYATT 206 to 232	92
305 to 326	92
18120 to 49740	91
75021 to 714052	97
93112 to 95940	95
99206 to 99232	98
99305 to 99326	98
A1203TS to A1326TS	96
A5203TS to A5324TS	97
A6205TS to A6236TS	97
C206 to C232	93
C305 to C326	93
CD210 to CD234	93
CS240	93
CSD226	93
CSW226 to CSW244	93
CW206 to CW236	93
D210 to D234	92
D99210 to D99234	98
DA99244	98
HP93120 to HP95940	94
M312 to M322	92
M99312 to M99322	98
MC312 to MC322	93
N306	92
N99306	98
NC306	93
S240 to S406	92
S94116 to S95928	94
S99148 to S99240	98
SC405, SC406	93
SD226	92
SD99226 to SC99244	98
SW226 to SW244	92
SW99226 to SW99244	98
W206 to W236	92
W99206 to W99236	98
IDEAL Multi-Duty Live Centers	321
Heavy Duty Live Centers	322
Universal Live Centers	322
Pipe Point Live Centers	323
KEYSTONE End Bells	318

KILIAN		LOCKNUTS—LOCKWASHERS, cont'd		MRC, cont'd	
	Page		Page		Page
D2253 to D3360	28	N-022 to N-076	377	206SRRC to 312SRRC	38
F150 to F1100-9	27	P-48 to P-76	377	200SZ to 312SZ (SZZ)	35
SR253 to SR1360	26	W-00 to W-44	376	202SZZC to 306SZZC	38
		W-022 to W-044	377	305SWI to 320SWI	36
LINK-BELT		LOCTITE	328-329	308WI to 318WI	36
C2-412 to C2-464	265			1102 to 1128 (F) (U)	172
C310 to C363 (CE)	264	LUBRIKO		1900S to 1940S (R) (RD)	39
DS3-400 Series	263	Densities Table	330-331	2900 to 2925	171
F210 to F255	255	MANGANESE BABBITT	289	5205 to 5420-R2	34
F310 to F363 (FE)	257			5205F to 5411F	34
F412 to F464	259	McGILL		5212FG to 5313FG	33
FC214 to FC2E64	256	CF- $\frac{1}{2}$ to CF-6 (S)	102	5219G to 5411G	33
FC310 to FC363 (FCE)	258	CFH- $\frac{1}{2}$ to CFH-6 (S)	102	5204K to 5218K	34
FC412 to FC464	259	CYR- $\frac{3}{4}$ to CYR-6 (S)	103	5206KF to 5314KF	34
FX210 to FX224	256	FR- $\frac{5}{8}$ to FR-6	105	5204KFG to 5303KFG	33
GP6839 to GP68112F (GPE)	251	FRD-1 $\frac{1}{4}$ to FRD-6	105	5204KG to 5218KG	33
GP6923 to GP6987F (GPE)	252	GR-8-N to GR-148	100	5200SB to 5302SB	34
GP7880 to GP78190F	254	GR-10-S (SS) to GR-68-S (SS)	100	5200SBKF to 5204SBKF	34
GP7945 to GP79160F	254	GR-204 to GR-5220 (GRI)	104	7100KR to 7138KR (KRD)	37
GPK6839F to GPK68112F	253	MI-6-N to MI-128	99-101	7120 to 7356 (D)	30
GPK7880F to GPK78190F	253	MO-10-N to MO-148	99	7202 to 7422 (D)	31
GS2-400 Series	263	MR-8-N to MR-148	101	7200S to 7301S (D)	31
LGP68120F to		RD-10 to RD-48	105	R-1 $\frac{1}{2}$ to R-20 (F) (FF)	38
LGP66160F (LGPE)	251	RS-5 to RS-48	105	R-3Z to R-20Z (ZZ)	38
LGP68120F to LGPK66160F	253			XLS 1 $\frac{3}{8}$ to XLS-10	36
LGP68120F to LGPK76280F	253				
LLP68120F to		MESSINGER		NEEDLE ROLLERS—	
LLP66160F (LLPE)	251	Descriptive Data	106	Type "NR" (Loose)	82
LLPK68120F to LLPK66160F	253	"X" Type Bearings	107	NEW DEPARTURE	
LLPK76280F to LLPK78220F	253	Featherweight Series	108	0L03 to 0L24	48
LP218 to LP263 (LPE)	248			3L00 to 3L38	47
LP318 to LP363F (LPE)	248	MINIATURE		3LL02 to 3LL22	47
LP6839 to LP68112F (LPE)	251	S2 to S8516 (C) (CH) (CHH)	40	5L11 to 5L24	47
LP6923 to LP6987F (LPE)	252	S2A to S6A7B	41	4-3L02 to 4-3L28	47
LP7880 to LP78190F	254	S2CE to S8516RE (H) (HH)	41	7-3L00 to 7-3L28	47
LP7945 to LP79160F	254	S2F to S8516F (C) (CH) (CHH)	40	47-3L02 to 47-3L24	47
LPK6839F to LPK68112F	253	S2FCE to S8516FRE (H) (HH)	41	77-3L02 to 77-3L24	47
LPK7880F to LPK78190F	253	S3M to S8516M (C) (A) (B)	40	477-3L02 to 477-3L24	47
NT200 Series	263	S3FM to S5632FM (C) (A) (B)	40	34 to 39-7	49
P210 to P263	246	S1 $\frac{1}{2}$ PR to S10PR	41	34B to 3200B	56
P310 to P363 (PE)	247	S2T to S7T	41	34D to 38U	55
P2-219 to P2-239	245	S040-125 to S250-625 (H) (HH)	41	1206 to 1224	42
P2-314 to P2-363	245	S040-125F to S250-625F (H) (HH)	41	1304 to 1322	42
P2-412 to P2-464	249			1404 to 1418	42
P2-523 to P2-564F (PE)	250	MRC		3200 to 3228	42
PK2-423 to PK2-464	249	1B to 19B4	171	3300 to 3322	42
T210 to T235	260	1C to 34C	171	3404 to 3416	42
T312 to T347	260	34 to 39 (F) (FF)	36	4510 to 4615	48
T412 to T448	261	36FS to 303FS (FSF) (FFS)	37	5200 to 5222	43
TAS200 Series	263	34Z to 39Z (ZZ)	35	5300 to 5318	43
TBS200 Series	263	100KR to 138KR	37	5407 to 5409	43
TDS200 Series	263	100KS to 136KS (F) (FF)	37	5500 to 5522	43
TGS200 Series	263	100KSZ to 114KSZ (ZZ)	35	5600 to 5613	43
W200 Series	262	102S to 122S (M)	30	7034 to 7039-10	49
LIVE CENTERS		120R to 356R	30	7206 to 7222	42
Ideal	321-323	103SH to 105SH	36	7304 to 7318	42
Nirol	324-325	200F to 419F (FF)	29	7405 to 7413	42
Sturdimatic	326-327	200FG to 322FG	33	7500 to 7522	42
		201G to 412G	33	7600 to 7618	42
LOCKNUTS—LOCKWASHERS		206M to 420M	29	7705 to 7710	42
AN-15 to AN-40	349	202R to 422R (RD)	32	8006 to 8214	52
BL-N-00 to BL-8-AN-40	375	200S to 422S	29	8500 to 8514	52
N-00 to N-44	376	204SFFC to 318SFFC	38	8602 to 8609	52

NEW DEPARTURE, cont'd

Page

41206 to 41222	45
41304 to 41320	45
41410 to 41412	45
43200 to 43222	46
43300 to 43319	46
43409 to 43416	46
45200 to 45222	44
45300 to 45316	44
45407	44
45500 to 45522	44
45603 to 45613	44
47206 to 47219	45
47304 to 47317	45
47500 to 47522	46
47600 to 47617	46
47705 to 47710	46
48009 to 48026	52
48500 to 48513	52
48602 to 48609	52
55500 to 55522	43
55600 to 55613	43
77034 to 77039-10	49
77206 to 77222	42
77304 to 77317	42
77500 to 77522	42
77600 to 77620	42
77705 to 77710	42
87006 to 87214	52
87500 to 87514	52
87602 to 87609	52
88006 to 88609	54
420206 to 420310	50
455500 to 455518	44
455600 to 455610	44
477206 to 477219	45
477304 to 477312	45
477500 to 477522	46
477602 to 477615	46
487009 to 487026	52
487500 to 487513	52
487603 to 487609	52
488009 to 488609	54
720304	50
CSR3D to CS38F	56
M0310 to M2032	55
7M0310 to 7M2032	55
77M0310 to 77M2032	55
N0L11 to N0L24	48
N5L11A to N5L24A	47
N20203 to QN-20226	50
ND5 to ND25F	49
NM0205B to NM0224B	49
NM0310 to NM2032	55
7NM0310 to 7NM2032	55
77NM0310 to 77NM2032	55
NR2 to NR6DD	55
NR3HA to NR5H	55
Q0L00 to Q0L30	48
Q70L03	48
Q34B to Q38B (BC) (BD)	56
Q420205	50
Q720203	50
QN0L06 to QN0L26	48

NEW DEPARTURE, cont'd

Page

QR1½B to Q3200B (BC)	56
QR2BE to QR3BEG (BC) (BD)	56
R1½B to R4B	56
R2 to R24	49
7-R2 to 7-R22	49
77-R2 to 77-R18	49
R2BE to R3BEG (BD)	56
R3D to R6DD	55
RS7R2 to RS7038U	55
RS77R2 to RS77038U	55
RS7SR2 to RS7SR6DD	56
RS7CSR3D to CSRS7038F	56
RS77CSR3D to CSRS77038F	56
SNR2 to SNR6DD	56
SR2 to SR6DD	56
U20200 to U30205	50
UH20300 to UH20416	50
UQ20226 to UQ30418	50
UQH20226 to UQH20418	50
WC-8006 to WC-8039	53
WC-8500 to WC-8605	53
WC-48009 to WC-48026	53
WC-48500 to WC-48605	53
WC-87006 to WC-87039	53
WC-87500 to WC-87605	53
WC-88006 to WC-88039	53
WC-88500 to WC-88605	53
WC-487009 to WC-487026	53
WC-487500 to WC-487605	53
WC-488500 to WC-488605	53
Z9-3L00 to Z9-3L14	51
Z49-3L02 to Z49-3L14	51
Z97-3L00 to Z97-3L14	51
Z99-3L00 to Z99-3L14	51
Z497-3L02 to Z497-3L14	51
Z499-3L02 to Z499-3L14	51
Z99-R22	49
Z9035 to Z9039	51
Z9500 to Z9610	51
Z49500 to Z49610	51
Z97035 to Z97039	51
Z97500 to Z97610	51
Z99035 to Z99039	51
Z99500 to Z99610	51
Z497500 to Z497610	51
Z499500 to Z499610	51
NICE	
501 to 525	58
701 to 720	58
1601DC to 3041DC	57
1601DS to 3041DS	57
1601NS to 3041NS	57
1601SC to 3041SC	57
1601SS to 3041SS	57
NIROL	
NEEDLE BEARING LIVE CENTERS	
	324
NORMA-HOFFMANN	
200K (N) to 207K (NN) (KK) (KP)	62

NORMA-HOFFMANN, cont'd

Page

3605-J to 3620-J	63
4666-R	60
6010 to 6025 (P)	61
6100 to 6109 (P) (PP)	62
6100K to 6111K (KK) (KP)	62
7006 to 7050 (P)	61
9006D to 9026D (DD)	62
43504 to 43615	63
43605-J to 43615-J	63
77006 to 77088	61
C-94 to C-99 (P) (PP)	60
C-97-K to C-99-K (KK) (KP)	62
DL-12 to DL-90	173
DM-15 to DM-95	173
E-5-4 to E-19	60
FL-3504 to FL-3620	63
FL-43504 to FL-43615	63
L-17 to L-30	60
LS-5 to LS-26	59
M-17 to M-20	60
MS-5 to MS-24	59
N-463-R	60
R-2-P to R-4-P (PP)	60
R-110 to R-600	109
R-115-E to R-595-E	109
R-117-L to R-400-L	109
R-117-LL to R-595-LL	109
R-117-RR to R-535-RR	109
RLS-18 to RLS-26	110
RLS-18-L to RLS-26-L	110
RMS-10 to RMS-26	110
RMS-10-L to RMS-26-L	110
RXLS-2 to RXLS-12	110
S-0-R to S-13-R	60
S1-RP to S-13-RP (PP)	60
S-3504 to S-3620	63
W¼ to W9	173
XA-134-R (P) (PP)	60
XLS-1½ to XLS-15½	59
NYLINED BEARINGS	
	378
NYLON	
Polypenco Nylon 101	342
Nylatron "GS" Nylon	342
Monocast "MC" Nylon	342
Polypenco "TFE" Fluorocarbon	343
Polypenco "Fluorosint"	343
Polypenco "Nylaflo" Tubing	343
OBB BALL BEARINGS	
BR-01 to BR-41 (7) (77)	70
BR-901 to BR-941 (99)	70
BS-4A to BS-18 (7) (77)	70
BS-94A to BS-918 (99)	70
FX-1 to FX-61	68
GDP-1 to GDP-84	67
GX-1 to GX-66	69
HX-1 to HX-14	66
UDP-1 to UDP-171	65-66
UF-1 to UF-82	64

OBB THRUST BEARINGS

Page

248 to 287	174
253 to 282	175
856-E to 6-340	175
2001 to 2097	174
2021 to 2024	175
4302 to 4308	174
4309 to 4315	175
4316 to 4324	176
4326 to 4348	177
B-1 to B-9	174
B-10 to B-24	175
B-25 to B-40	176
B-41 to B-42	177
C-1 to C-9	174
C-10 to C-24	175
C-25 to C-40	176
C-41 to C-42	177
D-1 to D-9	174
D-10 to D-24	175
D-25 to D-40	176
D-41 to D-42	177
E-18 to E-77	179
EW- $\frac{1}{4}$ to EW-1	174
EW-1 $\frac{1}{8}$ to EW-1 $\frac{7}{8}$	175
EW-2 to EW-2 $\frac{1}{4}$	176
FT-01 to FT-9	174
FT-10 to FT-24	175
FT-25 to FT-41	176
FT-42 to FT-44	177
GT-1 to GT-9	174
GT-10 to GT-24	175
GT-25 to GT-41	176
GT-42 to GT-44	177
H-51 to H-60	176
H-61 to H-77	177
MS-1 to MS-9	174
MS-10 to MS-24	175
MS-25 to MS-38	176
MS-39 to MS-73	177
UT-1 to UT-28	178
XW-2 to XW-3	176
XW-3 $\frac{1}{8}$ to XW-20	177

"O" RINGS

Design Data	338
"O" Ring Kits	338
Material Code Numbers	339
-1 through -460	339-341
Tube Fitting Sizes	341

OIL SEALS

Chicago Rawhide	344
Garlock	345
Victor	348

OILITE 337**OTC**

Grip-O-Matic Pullers	332
Pulling Attachments	333
Push-Pullers	334
Hydraulic Pullers	335
Hydraulic Pumps	336

Page

PILLOW BLOCKS.	187
PIVOT BEARINGS	41 and 55
POLYMER "POLYPENCO"	342
POPE	
Heavy Duty Precision Spindles	385
ROD ENDS.	23 and 317
ROLLERS	
"NR" Needle Rollers	82
ROLLWAY	
080416 to 321064	113
A080416 to A321064	112
AT-601 to AT-774	180
B206-13 to B236-94	111
B305-18 to B326	111
CS-5128 to CS-5336	116
CT-11 to CT-56	181
D206-13 to D236-94	111
D305-18 to D326	111
E1205B to E6219B	114
M206 to M417	115
MCS128 to MCS417	115
MCS5128 to MCS5336	116
MDW306 to MDW417	115
ML206 to ML417	115
ML5204 to ML5236	116
MS206 to MS417	115
MS5204 to MS5336	116
MU5204 to MU5236	116
MUC206 to MUC332	115
MUC5204 to MUC5336	116
MUL206 to MUL332	115
PA140532 to PA281056	112
SB240 to SB244-110	111
SD240 to SD244-110	111
T-601 to T-774	180
WCT-11 to WCT-56	181

SHAFT COLLARS. 320**SHEAVE PULLERS 332****SINTERED BRONZE BEARINGS 309****SLEEVE BEARINGS 294****SPECIALTIES. 285****SPINDLE REPAIR**

Precision Grinding and Boring Spindle Service.	386
--	-----

SPLIT ROLLER BEARING . 190-197**STURDIMATIC**

Live Centers	326
Revolving Stock Stop	327

SKF

Page

206A to 313A (Z) (2Z)	72
206ANR to 313ANR (ZNR)	73
700 to 736 (U)	184
902 to 928	183
1200 to 1322	78
1204K to 1322K	266
1504A to 1622A	266
2200 to 2322	78
2903 to 2928	183
5200 to 5414	76
6000 to 6030 (Z) (2Z)	73
6002NR to 6024NR (ZNR)	73
6000RS to 6022RS (2RS)	74
6200 to 6418 (Z) (2Z)	71
6200RS to 6220RS (2RS)	74
6300RS to 6312RS (2RS)	74
6200Y/C78 to 6222Y/C78	75
6200NR to 6313NR (ZNR)	73
6214TC/C78 to 6222TC/C78	75
6303Y/C78 to 6317Y/C78	75
7007CTC/C78/G to 7048CTC/C78/G	75
7201CTC/C78/G to 7220CTC/C78/G	75
7205B to 7218B (BG)	77
7219 to 7236 (G)	77
7304B to 7319B (BG)	77
7320 to 7334 (G)	77
7405B to 7415B (BG)	77
7416 to 7420X (G)	77
10403 to 10420	78
13300 to 18157	78
21207 to 21212	117
21305 to 21316	117
22206C to 22252C (K)	117
22308C to 22352 (K)	117
22507A to 22640A	267
23024 to 23096 (K)	119
23122 to 23196 (C) (CA)	118
23220 to 23296CA	118
29322 to 29576	182
36059-20 to 36059-44	278-283
51100 to 51156	183
230/500 to 230/950CA	119
231/500 to 231/850CA	118
232/500 to 232/750CA	118
452314 to 452332	119
462204 to 462312	72
477204-012 to 477212-207	269-274
478203-008 to 478207-107	270-273
479204-012 to 479220-400	269-274
A8819 to A8971	279
ASK-17 to ASK-126	268
F-40 to FT-62	272
FR-8 to FP-107	272
FTP-8 to FTP-104A	272
FY-12 to FY-215	274
FY-12X to FY-207X	274
FYP-8 to FYP-107	273
FYTP-8 to FYTP-107	273
ER-103 to ER-876	275-280
I-71210 to I-71235	266
LER-6 to LER-248	275-280
N-048 to N-076	279

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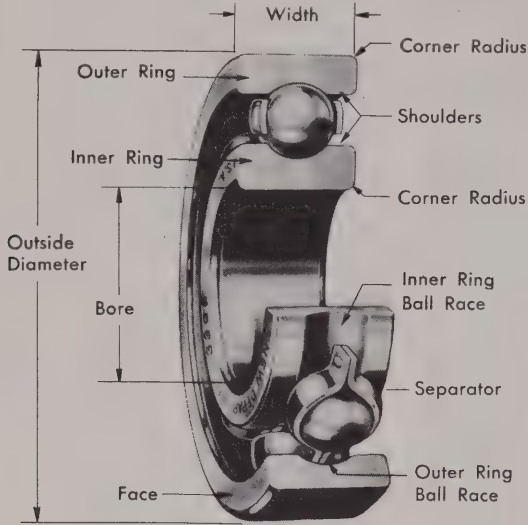
BEARING PARTS AND THEIR NAMES

The parts common to all standard ball and roller bearings have, for the purpose of this manual, been given names as shown below.

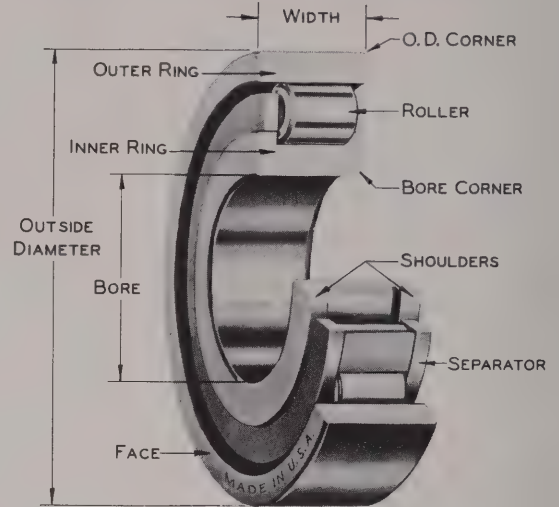
Basically all anti-friction bearings consist of two hardened steel rings, the hardened balls or rollers and separator. A number of variations of these types are in

use. Some types, such as Needle roller bearings may be used without an inner ring, the rollers fitting directly upon the hardened shaft. Needle bearings have no separator.

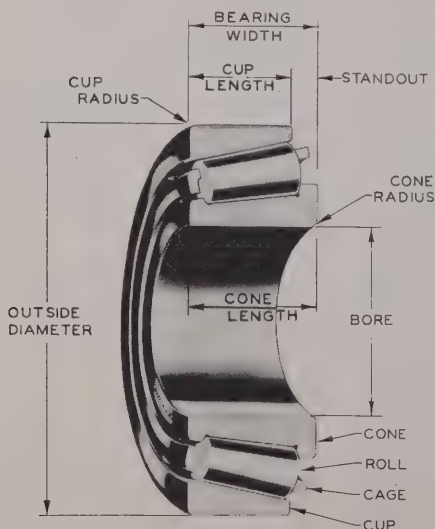
BALL BEARING



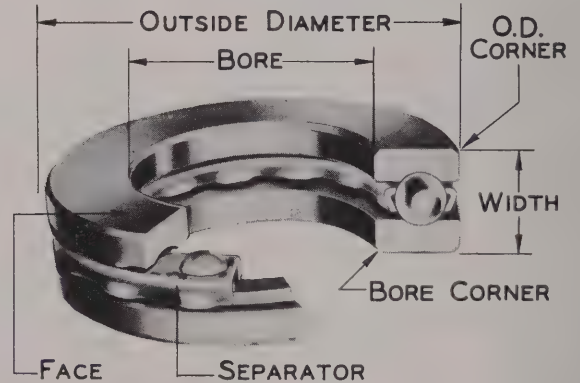
STRAIGHT ROLLER BEARING



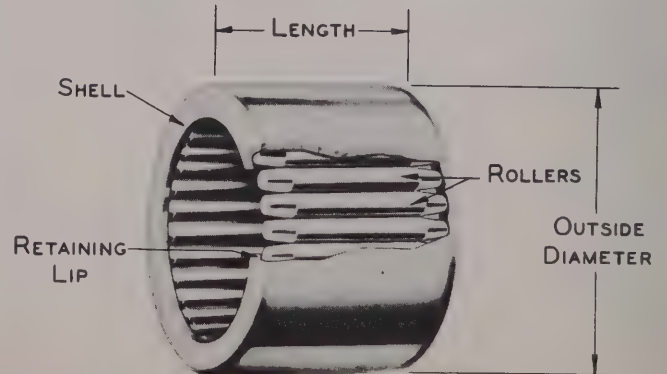
TAPERED ROLLER BEARING



BALL THRUST BEARING



NEEDLE ROLLER BEARING



BALL BEARING SECTION

	Page		Page
BEARING TOLERANCES	1	MINIATURE PRECISION BEARINGS	
SHOULDER HEIGHTS	2	Radial, Flanged Radial, and High Speed	40
SHAFT and HOUSING FITS	3	Pivot and Thrust Types "PR", "T", "A"	41
BEARING BALLS	4	Extended Inner Ring Types "CE" and "FCE"	41
BARDEN SUPER PRECISION		MINA-Class 3 MPB Bearings	41
SR, SFR, R Flexeal and Angular Contact Types	6	NEW DEPARTURE	
A 500 Torque Tube, Ultra-Light	6	1000, 3000 Type Single Row	42
SR, SFR Miniature and Instrument Sizes	7	Single Row Shielded	42
30, 100, 200 Series Radial and Angular Contact	8	5200, 5300, 5400 Double Row	43
FAFNIR		Double Row Shielded	43
200, 300, 400 Series Single Row Radial	9	Snap Ring Type—Double Row	44
Single Row Shielded—"D" and "DD"	9	Snap Ring, Single Row, Max Type	45
Extra Large Metric Single Row	10	Snap Ring, Single Row, Conrad Type	46
Extra Large Metric with Shield	10	3L00, 73L00, 773L00 Extra Light Series	47
WIR Type (Extended Inner Ring Type)	10	43L00, 473L00, 4773L00 Snap Ring Type	47
9000K, M9000K, M9000K-CR Extra Light	11	3LL00 Extra-Extra Light Series	47
2M9000WI-CR Counter Bore Type	11	5L00, N5L00A Double Row, Extra Light	47
5200, 5300, 5400 Double Row	12	0L00, Q0L00, N0L00 Angular Contact	48
Double Row Shielded and Snap Ring	12	Type 4000—Wide Inner Ring	48
7200, 7300, 7400 Radial Thrust	13	ND-5 to ND-25-F Magneto Type	49
Radial Thrust Duplex, DB-DF-DT	13	R, 7R, and 77R Inch Series—Extra Small	49
200G, 300G Wireloc (Snap Ring) Type	14	30 Series (Metric) Extra Small	49
Flanged Extra Small Single Row	15	NM-0200-B Flanged Precision	49
Flanged Extra Small Shielded	15	20,000 Series—Single and Duplex	50
"S" Inch Type and 30 Metric Series	15	Q30,000 Series—Single and Duplex	50
T, TD, TT Felt Seal Series	16	Z9000, Z99000, Z97000, Z49000, Z499000 and	
100 Narrow Series	16	Z497000 Senti-Seal Type	51
B500 Torque Tube Inch Type	16	8000, 87000, 48000, 487000 Series	52
P and PP Plya-Seal Type	17	WC-8000, WC-87000, WC-88000 Series	53
W-PP Wide Plya-seal Type	17	WC-48000, WC-487000, WC-488000 Series	53
W-KLL Wide Mechani-seal Type	17	88000, 488000 Series	54
L, LL, LD Mechani-seal Type	18	Instrument Bearings	55
2MM200WI-DUL Type, Super Precision		Instrument Bearings	56
Replacement for Heald, etc.	19	NICE BALL BEARINGS	
MM-EX Series, for Excello	19	1600 and 3000 Series	57
Explanation of Precision Classifications	20	500 and 700 Series	58
Super Precision Spindle Bearings	21	NORMA-HOFFMANN BALL BEARINGS	
2MM-9000 and Extra Small Super Precision	21	XLS, LS and MS Series—Inch Type	59
MM-9100 Series—Extra Light Super Precision	22	E-5 to L-30, S-R and C-90 Series	60
MV Instrument Precision Type	22	6000 (P), 7000 (P) and 77000 Series	61
Aircraft Type, Rod Ends	23	9000-D (DD), 6100 (P), (PP)	62
Aircraft Type	24	C-90-K, 6100-K, 200-K (N) "Plastiseal"	62
KILIAN UNGROUND BEARINGS		3500, 3600 (FL), 43500, 43600 (J)	63
SR-253 to SR-1360 Single Row	26	UNGROUND COMMERCIAL BEARINGS	
F-150 to F-1100-9 Flanged Type	27	UF, Flanged Type	64
D-2253 to D-3360 Double Row	28	UDP, Single Row, Unground	65
MRC BALL BEARINGS		HX, Flanged, Hex Bore, Unground	66
200, 300, 400 Series Single Row	29	GDP, Ground Commercial Type	67
Shielded Type—"F" and "FF"	29	FX, Flanged, Set-Screw Type	68
Extra Large Type R Radial	30	GX, Ground, Set-Screw Type	69
7000 Angular Contact and Duplex	30	BR, BS Series—Ground, Solid Race Type	70
7200, 7300, 7400 Angular Contact and Duplex	31	SKF BALL BEARINGS	
Single Row Radial R and Duplex RD	32	6200, 6300, 6400 (Z), (2Z) Single Row	71
200G, 300G, 400G Snap Ring Type	33	R (30) 200A, 300A, (Z) (2Z) Single Row	72
5200, 5300, 5400 Double Row Snap Ring	33	462200, 462300 Cartridge Type	72
5200, 5300, 5400 Double Row Angular Contact	34	6000 (Z) (2Z) (NR) (ZNR) Extra Light Type	73
Z and ZZ Synthe-Seal Type	35	6200-NR (ZNR), 6300-NR (ZNR)	
XLS Inch and SWI Wide Inner Types	36	Snap Ring Type	73
30 Series and Narrow Type	36	200A-NR (ZNR), 300A-NR (ZNR)	
100, 7100 Extra Light Type "KR" and "KS"	37	Snap Ring Type	73
"FS" Fabri-Seal Types	37	RS, 2RS Fairprene—Red Seal Type	74
Sealed Cartridge Type "SRRC", "SFFC",		Super-Precision Spindle Bearings	75
"SZZC"	38	5200, 5300, 5400 Series, Double Row	76
Inch Type, Open, Shielded and Sealed	38	7200, 7300, 7400 (B) (BG) Angular Contact	77
1900 Series Extremely Light Single Row	39	13300, 1200, 1300, 10400, 2200 and 2300 Series—	
1900 Series Duplex	39	Self-Aligning Type	78

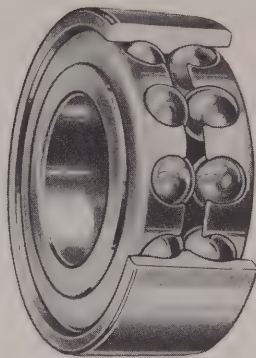
BALL BEARINGS PICTORIAL INDEX



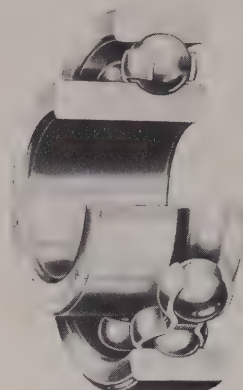
Bearing Balls



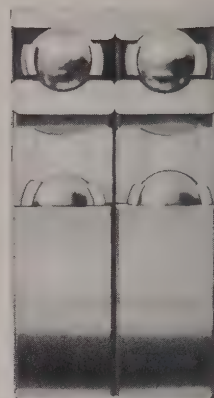
Fafnir Single Row



Fafnir Double Row



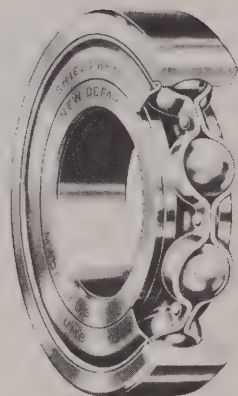
Fafnir
Extended Inner Ring



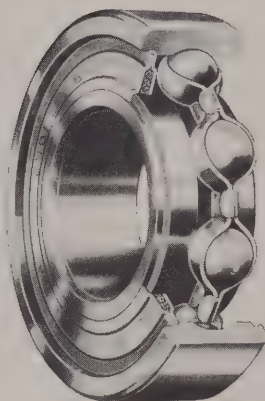
Fafnir Duplex



ND Snap Ring



New Departure Shielded



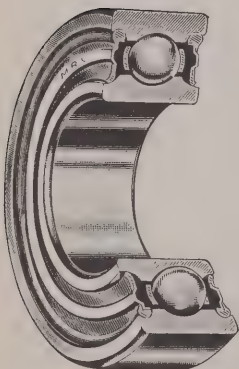
New Departure
Felt Seal



New Departure
Double Row



SKF Snap-Ring
Type



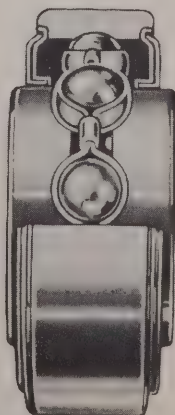
MRC Synthe Seal



Nice Combination Radial Thrust



New Departure Magneto



Fafnir Mechani-Seal



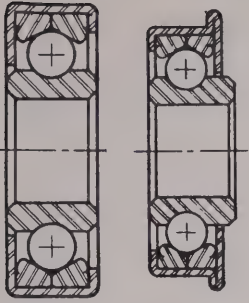
SKF Self-Aligning



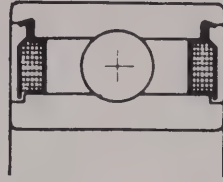
Nice 1600 Series

BALL BEARINGS

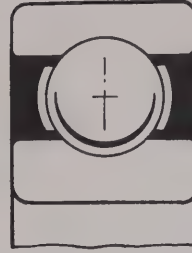
PICTORIAL INDEX



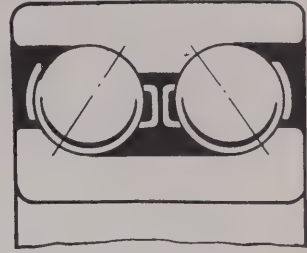
Commercial Unground



Fafnir Felt Seal



New Departure Single Row



New Departure Double Row



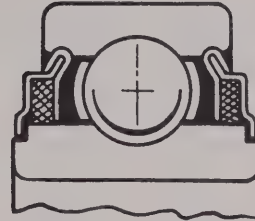
Flanged



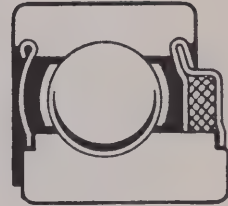
Single Row
Kilian Ball Bearings



Double Row



New Departure Seal Type



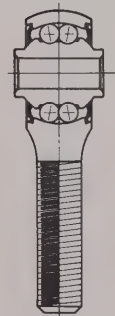
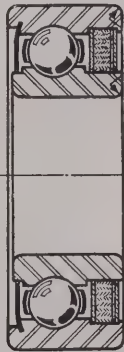
New Departure Seal Type



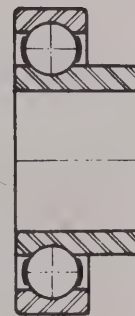
Fafnir
Single and Double Grease Shield



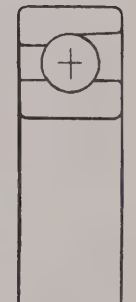
Norma-Hoffmann Felt Seal



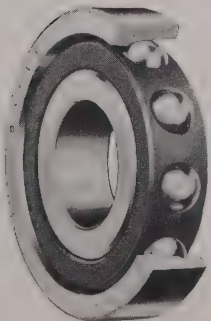
Fafnir
Rod End



Fafnir WIR Type



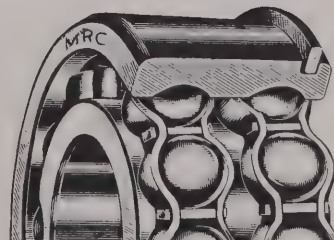
Fafnir 9000 K Series



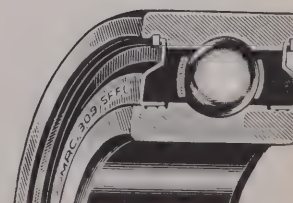
Barden Super Precision



Spring Separators



MRC Snap Ring



MRC Cartridge Type

APPROXIMATE LIMITING SPEEDS FOR STANDARD BALL AND ROLLER BEARINGS

The limits for the permissible speed is usually determined by the temperature increase in the bearing. This temperature rise is primarily dependent on the bearing friction and the friction in turn dependent on the load and the speed.

The kind and quantity of lubricant, as well as the method of lubrication, has a great influence on the permissible speed.

In most bearing types, the design and material of the cage play an important part at high speeds. Cages of pressed steel are, due to their low weight, usually the most suitable at normal speeds. Machined cages either of bronze or, for some types of bearings, of phenolic composition, usually centered upon one of the bearing rings, permit an increase of the speed for

most bearing types. Very often special internal clearances are required for increased speeds.

Due to the many factors which combine to determine the speed limit, it is not possible to calculate this limit with a high degree of accuracy. Frequently, it must be estimated on the basis of experience with bearings operating under conditions similar to those in question.

An approximate speed limit is given in the bearing tables for each individual size and type of bearing. This limit is approximate only and applies to ordinary grease lubrication and the type of cage which is standard in the particular bearing. The approximate limiting speed for oil bath is given as a ratio of the speed for grease lubrication in footnotes to the bearing tables.

FOR HIGHER SPEEDS CONSULT OUR BEARING ENGINEERS

BALL BEARINGS								ROLLER BEARINGS					
Single Row Self Aligning Angular Contact			Double Row			Thrust Basic No.	Maximum *RPM For Grease Lub See Footnotes For Oil Bath	Spherical Self Aligning Roller		Crowned Cylindrical Roller Machined Bronze Cage Type		Maximum †RPM For Grease Lubrication See Foot Notes For Oil Bath	
For Felt Sealed Brgs. Reduce 40%													
For Duplex Mtg. Reduce 30%													
Light	Med.	Hvy.	Light	Med.	Hvy.			Light	Med.	Light	Med.		
200	...	...	....	....	....	..	16500	...	...	205	...	6500	
201	300	...	....	....	....	..	15000	...	...	206	305	5500	
202	301	...	....	....	....	..	13000	...	...	207	306	4700	
203	302	...	5200	....	....	..	12000	...	...	208	307	4100	
204	303	...	5201	....	....	..	10000	...	...	209	308	3800	
205	304	403	5202	....	....	..	8700	...	...	210	309	3500	
206	305	404	5203	....	....	02	7400	...	...	211	310	3200	
207	306	405	5204	5303	....	03	6500	...	...	212	...	3000	
208	307	406	5205	5304	....	04	5600	...	...	213	311	2700	
209	308	...	5206	5305	....	05	5100	...	...	214	312	2600	
210	309	407	....	5306	....	06	4700	...	308	215	313	2400	
211	...	408	5207	5307	....	..	4300	...	...	216	314	2250	
212	310	409	5208	....	5406	07	3900	...	309	218	316	2000	
213	311	410	5209	5308	....	08	3600	...	310	219	317	1900	
214	312	411	....	....	5407	..	3500	...	311	220	318	1800	
215	313	412	5210	5309	....	09	3250	...	312	222	319	1650	
216	314	413	5211	5310	5408	..	3000	...	313	...	320	1500	
217	315	...	5212	....	5409	10	2800	216	314	224	322	1400	
218	316	414	....	5311	....	11	2650	217	315	...	324	1300	
219	317	...	5213	5312	5410	..	2500	218	316	...	326	1250	
220	318	...	5214	....	5411	12	2400	219	317	...	328	1150	
...	319	...	5215	5313	5412	13	2250	220	318	...	...	1100	
222	320	...	5216	5314	....	14	2100	222	319	...	330	1050	
224	321	415	5217	5315	....	15	1950	224	320	...	...	1000	
226	322	...	5218	5316	....	16	1850	226	322	...	...	900	
228	324	...	5219	5317	....	17	1650	228	324	...	...	800	
230	326	...	5220	5318	....	18	1500	230	326	...	...	750	
232	...	...	....	....	....	20	1400	232	328	...	...	700	
234	...	...	....	....	....	26	1300	234	330	...	...	650	
...	...	...	....	....	....	..	....	236	332	...	...	600	
...	...	...	....	....	....	..	....	238	334	...	...	575	

*FOR OIL BATH USE THE FOLLOWING MULTIPLIERS:
SELF ALIGNING 1.25
ALL OTHERS 1.50

†FOR OIL BATH LUBRICATION
USE A MULTIPLIER OF 2

SEE PAGE 330 FOR GREASE DENSITY RECOMMENDATIONS

STANDARD TOLERANCES

METRIC TYPE RADIAL BALL AND ROLLER BEARINGS

(EXCEPT MAGNETO BEARINGS)

INNER RING			OUTER RING			WIDTH TOLERANCES INDIVIDUAL Inner and Outer Rings (Single Bearings only)	
BORE TOLERANCES		Eccen- tricity	O. DIAMETER TOLERANCES		Eccen- tricity	Nominal Bore	Width Tolerance +.0000" To
Bore Sizes	Tolerances +.0000" To		O. D. Sizes	Tolerances +.0000" To			

ABEC-1 SAE STANDARD TOLERANCES

Up to 9MM Incl.	-.0003"	.0003"	Up to 18MM Incl.	-.0004"	.0006"	.....	.....
10 to 18MM	-.0003"	.0004"	19 to 30MM	-.0004"	.0006"	.....	.....
19 to 30MM	-.0004"	.0005"	31 to 50MM	-.0005"	.0008"	.....	.....
31 to 50MM	-.0005"	.0006"	51 to 80MM	-.0005"	.0010"	Up to 180MM	-.0050"
51 to 80MM	-.0006"	.0008"	81 to 120MM	-.0006"	.0014"	181 to 315MM	-.0100"
81 to 120MM	-.0008"	.0010"	121 to 150MM	-.0008"	.0016"	316 to 400MM	-.0160"
121 to 180MM	-.0010"	.0012"	151 to 180MM	-.0010"	.0018"	.....	.....
181 to 250MM	-.0012"	.0016"	181 to 250MM	-.0012"	.0020"	.....	.....
251 to 315MM	-.0014"	.0020"	251 to 315MM	-.0014"	.0024"	.....	.....
316 to 400MM	-.0016"	.0024"	316 to 400MM	-.0016"	.0028"	.....	.....
.....	.....	.....	401 to 500MM	-.0018"	.0032"	.....	.....

ABEC-3 TOLERANCE

With Specially Close Bore, Outside Diameter And Inner Ring Eccentricity Tolerances

Up to 9MM Incl.	-.0002"	.0002"	Up to 18MM Incl.	-.0003"	.0004"	.....	.....
10 to 18MM	-.0002"	.0003"	19 to 30MM	-.0003"	.0004"	.....	.....
19 to 30MM	-.0002"	.0003"	31 to 50MM	-.0003"	.0004"	.....	.....
31 to 50MM	-.0003"	.0004"	51 to 80MM	-.0004"	.0005"	Up to 180MM	-.0050"
51 to 80MM	-.0004"	.0004"	81 to 120MM	-.0004"	.0007"	181 to 315MM	-.0100"
81 to 120MM	-.0005"	.0005"	121 to 150MM	-.0005"	.0008"	316 to 400MM	-.0160"
121 to 180MM	-.0006"	.0006"	151 to 180MM	-.0006"	.0009"	401 to 500MM	-.0180"
181 to 250MM	-.0007"	.0008"	181 to 250MM	-.0007"	.0010"	501 to 630MM	-.0220"
251 to 315MM	-.0008"	.0010"	251 to 315MM	-.0008"	.0012"	.....	.....
.....	.....	.....	316 to 400MM	-.0009"	.0014"	.....	.....
.....	.....	.....	401 to 500MM	-.0010"	.0016"	.....	.....

ABEC-5 PRECISION

Up to 50MM Incl.	-.0002"	.0002"	Up to 50MM Incl.	-.0002"	.0002"	.....	.....
51 to 80MM	-.0003"	.0002"	51 to 80MM	-.0003"	.0003"	.....	.....
81 to 120MM	-.0003"	.0003"	81 to 120MM	-.0003"	.0004"	.....	.....
121 to 180MM	-.0004"	.0003"	121 to 151MM	-.0004"	.0004"	Up to 180MM	-.0050"
181 to 250MM	-.0005"	.0004"	151 to 180MM	-.0005"	.0005"	181 to 315MM	-.0100"
251 to 315MM	-.0005"	.0005"	181 to 250MM	-.0005"	.0005"	316 to 400MM	-.0160"
.....	.....	.....	251 to 315MM	-.0005"	.0006"	401 to 500MM	-.0180"

ABEC-7 SUPER-PRECISION

Up to 18MM Incl.	-.00015"	.00010"	Up to 80MM Incl.	-.0002"	.0002"	.....	.....
19 to 30MM	-.00015"	.00015"	81 to 120MM	-.0003"	.0002"	.....	.....
31 to 80MM	-.00020"	.00015"	121 to 180MM	-.0004"	.0003"	Up to 180MM	-.0050"
81 to 120MM	-.00025"	.00020"	181 to 250MM	-.0004"	.0004"	.....	.....

ABEC-9 ULTRA-PRECISION

Information is available upon request

NEED HELP ON BEARINGS—CALL US

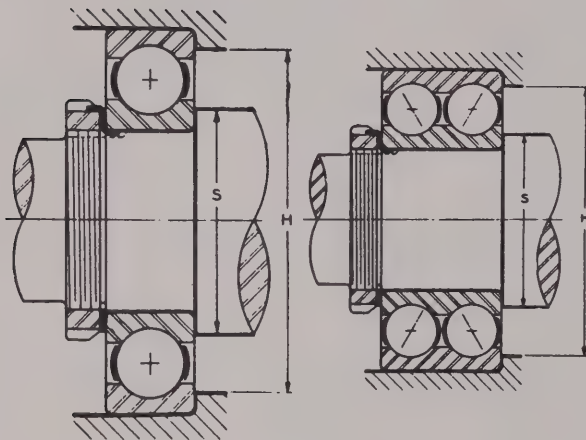
SHAFT AND HOUSING SHOULDER HEIGHTS

Where bearings are located axially between shoulders on the shaft or in the housing or both these shoulders must be high enough to carry the thrust load imposed on them. At the same time, they must not be too high since the bearing rings should project slightly beyond them so that they can be pulled from the shaft or housing when necessary.

The faces of these shoulders against which the bear-

ing rings abut should, of course, be flat surfaces and in a plane at a right angle to the shaft axis.

The following table gives the maximum and minimum shoulder heights which should be used under all ordinary conditions of application and load. For special conditions please refer details to our engineering department for recommendations.

SINGLE ROW — RADIAL-THRUST — DOUBLE ROW**HEAVY SERIES**

Basic Brg. No.	Shaft Shoulder (S)		Housing Shoulder (H)	
	Max.	Min.	Max.	Min.
403	1.06	.95	2.17	2.03
404	1.25	1.06	2.56	2.50
405	1.47	1.34	2.80	2.63
406	1.72	1.54	3.19	3.00
407	1.93	1.73	3.58	3.38
408	2.19	1.97	3.94	3.69
409	2.44	2.17	4.33	4.00
410	2.69	2.44	4.65	4.38
411	2.93	2.64	5.04	4.75
412	3.19	2.84	5.43	5.13
413	3.50	3.03	5.83	5.50
414	3.69	3.31	6.54	6.13
415	3.93	3.50	6.93	6.44
416	4.13	3.70	7.32	6.81
417	4.44	4.06	7.56	7.13
418	4.69	4.25	8.15	7.75

EXTRA-LIGHT SERIES

Basic Brg. No.	Shaft Shoulder (S)		Housing Shoulder (H)	
	Max.	Min.	Max.	Min.
00	.52	.47	.95	.91
01	.71	.55	1.02	.97
02	.75	.67	1.18	1.11
03	.81	.75	1.30	1.23
04	.98	.89	1.46	1.44
05	1.18	1.08	1.65	1.62
06	1.38	1.34	1.93	1.90
07	1.63	1.53	2.21	2.19
08	1.81	1.73	2.44	2.42
09	2.03	1.94	2.72	2.69
10	2.22	2.13	2.91	2.90
11	2.48	2.33	3.27	3.22
12	2.67	2.53	3.47	3.43
13	2.84	2.72	3.66	3.65
14	3.11	2.91	4.06	3.97
15	3.31	3.11	4.25	4.16
16	3.56	3.31	4.65	4.50
17	3.75	3.50	4.84	4.71
18	4.03	3.84	5.16	5.13
20	4.38	4.23	5.55	5.44
21	4.66	4.53	5.91	5.75
22	4.91	4.73	6.30	6.18

LIGHT SERIES

Basic Brg. No.	Shaft Shoulder (S)		Housing Shoulder (H)	
	Max.	Min.	Max.	Min.
200	.56	.50	.98	.97
201	.64	.58	1.06	1.05
202	.75	.69	1.18	1.15
203	.84	.77	1.34	1.34
204	1.00	.94	1.61	1.60
205	1.22	1.14	1.81	1.80
206	1.47	1.34	2.21	2.16
207	1.72	1.53	2.56	2.47
208	1.94	1.73	2.87	2.78
209	2.13	1.94	3.07	2.97
210	2.34	2.13	3.27	3.19
211	2.54	2.41	3.68	3.56
212	2.81	2.67	3.98	3.87
213	3.03	2.86	4.37	4.19
214	3.22	3.06	4.57	4.41
215	3.44	3.25	4.76	4.59
216	3.69	3.55	5.12	4.93
217	3.88	3.75	5.51	5.31
218	4.16	3.94	5.91	5.62
219	4.38	4.22	6.22	6.06
220	4.63	4.41	6.61	6.31
221	4.88	4.61	7.01	6.88

MEDIUM SERIES

Basic Brg. No.	Shaft Shoulder (S)		Housing Shoulder (H)	
	Max.	Min.	Max.	Min.
300	.59	.50	1.18	1.15
301	.69	.63	1.22	1.21
302	.81	.75	1.42	1.40
303	.91	.83	1.61	1.60
304	1.06	.94	1.77	1.75
305	1.31	1.14	2.17	2.09
306	1.56	1.34	2.56	2.44
307	1.78	1.69	2.80	2.72
308	2.00	1.93	3.19	3.06
309	2.28	2.13	3.58	3.41
310	2.50	2.36	3.94	3.75
311	2.75	2.56	4.33	4.13
312	2.94	2.84	4.65	4.44
313	3.19	3.03	5.04	4.81
314	3.44	3.23	5.43	5.13
315	3.88	3.43	5.83	5.50
316	3.94	3.62	6.22	5.88
317	4.13	3.90	6.54	6.19
318	4.38	4.09	6.93	6.50
319	4.63	4.29	7.32	6.88
320	4.88	4.49	7.91	7.38
321	5.13	4.69	8.31	7.75

Shaft and Housing Fits

The tables below are standards arrived at by the Annular Bearing Engineers Committee and give dimensions to which shafts and housings should be

machined so as to produce a satisfactory operating assembly of the bearing with these units.

SHAFT FITS Standard Bearings

TYPES	BASIC NUMBER	BEARING BORE		SHAFT ROTATING			SHAFT STATIONARY		
				SHAFT DIAMETER		MEAN FIT TIGHT	SHAFT DIAMETER		MEAN FIT LOOSE
		Max.	Min.	Max.	Min.		Max.	Min.	
Single Row	00	.3937	.3934	.3939	.3936	.0002	.3935	.3931	.0003
Extra Light	01	.4724	.4721	.4726	.4723	.0002	.4722	.4717	.0003
200 Light	02	.5906	.5903	.5908	.5905	.0002	.5904	.5899	.0003
300 Medium	03	.6693	.6690	.6695	.6692	.0002	.6691	.6686	.0003
400 Heavy	04	.7874	.7870	.7878	.7875	.0005	.7871	.7866	.0004
	05	.9843	.9839	.9847	.9844	.0005	.9840	.9835	.0004
	06	1.1811	1.1807	1.1815	1.1812	.0005	1.1808	1.1803	.0004
	07	1.3780	1.3775	1.3785	1.3781	.0006	1.3776	1.3770	.0005
	08	1.5748	1.5743	1.5753	1.5749	.0006	1.5744	1.5738	.0005
	09	1.7717	1.7712	1.7722	1.7718	.0006	1.7713	1.7707	.0005
Radial-Thrust	10	1.9685	1.9680	1.9690	1.9686	.0006	1.9681	1.9675	.0005
7200 Light	11	2.1654	2.1648	2.1660	2.1655	.0007	2.1650	2.1643	.0005
7300 Medium	12	2.3622	2.3616	2.3628	2.3623	.0007	2.3618	2.3611	.0005
7400 Heavy	13	2.5591	2.5585	2.5597	2.5592	.0007	2.5587	2.5580	.0005
	14	2.7559	2.7553	2.7565	2.7560	.0007	2.7555	2.7548	.0005
	15	2.9528	2.9522	2.9534	2.9529	.0007	2.9524	2.9517	.0005
	16	3.1496	3.1490	3.1502	3.1497	.0007	3.1492	3.1485	.0005
	17	3.3465	3.3457	3.3472	3.3466	.0008	3.3460	3.3452	.0005
	18	3.5433	3.5425	3.5440	3.5434	.0008	3.5428	3.5420	.0005
Double Row	19	3.7402	3.7394	3.7409	3.7403	.0008	3.7397	3.7389	.0005
5200 Light	20	3.9370	3.9362	3.9377	3.9371	.0008	3.9365	3.9357	.0005
5300 Medium	21	4.1339	4.1331	4.1346	4.1340	.0008	4.1334	4.1326	.0005
5400 Heavy	22	4.3307	4.3299	4.3314	4.3308	.0008	4.3302	4.3294	.0005

HOUSING FITS Standard Bearings

TYPES	BASIC NUMBER				BEARING O.D.		HOUSING STATIONARY			HOUSING ROTATING		
							HOUSING BORE		MEAN FIT LOOSE	HOUSING BORE		MEAN FIT TIGHT
	EXTRA LIGHT	LIGHT	MEDIUM	HEAVY	Max.	Min.	Min.	Max.		Min.	Max.	
Single Row	00				1.0236	1.0232	1.0236	1.0241	.0004	1.0228	1.0236	.0002
	01				1.1024	1.1020	1.1024	1.1029	.0004	1.1016	1.1024	.0002
		200			1.1811	1.1807	1.1811	1.1816	.0004	1.1803	1.1811	.0002
	02	201			1.2598	1.2593	1.2598	1.2604	.0005	1.2588	1.2598	.0003
	03	202	300		1.3780	1.3775	1.3780	1.3786	.0005	1.3770	1.3780	.0003
			301		1.4567	1.4562	1.4567	1.4573	.0005	1.4557	1.4567	.0003
		203			1.5748	1.5743	1.5748	1.5754	.0005	1.5738	1.5748	.0003
	04		302		1.6535	1.6530	1.6535	1.6541	.0005	1.6525	1.6535	.0003
	05	204	303		1.8504	1.8499	1.8504	1.8510	.0005	1.8494	1.8504	.0003
		205	304		2.0472	2.0467	2.0472	2.0479	.0006	2.0460	2.0472	.0003
Radial-Thrust	06				2.1654	2.1649	2.1654	2.1661	.0006	2.1642	2.1654	.0003
	07	206	305	403	2.4409	2.4404	2.4409	2.4416	.0006	2.4397	2.4409	.0003
	08				2.6772	2.6767	2.6772	2.6779	.0006	2.6760	2.6772	.0003
		207	306	404	2.8346	2.8341	2.8346	2.8353	.0006	2.8334	2.8346	.0003
	09				2.9528	2.9523	2.9528	2.9535	.0006	2.9516	2.9528	.0003
	10	208	307	405	3.1496	3.1491	3.1496	3.1503	.0006	3.1484	3.1496	.0003
		209			3.3465	3.3459	3.3465	3.3474	.0008	3.3451	3.3465	.0004
	11	210	308	406	3.5433	3.5427	3.5433	3.5442	.0008	3.5419	3.5433	.0004
	12				3.7402	3.7396	3.7402	3.7411	.0008	3.7388	3.7402	.0004
	13	211	309	407	3.9370	3.9364	3.9370	3.9379	.0008	3.9356	3.9370	.0004
Double Row	14	212	310	408	4.3307	4.3301	4.3307	4.3316	.0008	4.3293	4.3307	.0004
		213	311	409	4.7244	4.7238	4.7244	4.7253	.0008	4.7230	4.7244	.0004
		214			4.9213	4.9205	4.9213	4.9223	.0009	4.9197	4.9213	.0004
	17	215	312	410	5.1181	5.1173	5.1181	5.1191	.0009	5.1165	5.1181	.0004
	18	216	313	411	5.5118	5.5110	5.5118	5.5128	.0009	5.5102	5.5118	.0004
	20	217	314	412	5.9055	5.9047	5.9055	5.9065	.0009	5.9039	5.9055	.0004
		218	315		6.2992	6.2982	6.2992	6.3002	.0009	6.2976	6.2992	.0003
	21	219	316	413	6.6929	6.6919	6.6929	6.6939	.0009	6.6913	6.6929	.0003
	22				7.0866	7.0856	7.0866	7.0876	.0009	7.0850	7.0866	.0003
	24	220	317	414								
		221	318	415	7.4803	7.4791	7.4803	7.4814	.0012	7.4785	7.4803	.0003
	26	222	319	416	7.8740	7.8728	7.8740	7.8751	.0012	7.8722	7.8740	.0003
				417	8.2677	8.2665	8.2677	8.2688	.0012	8.2659	8.2677	.0003
		224	320		8.4646	8.4634	8.4646	8.4657	.0012	8.4628	8.4646	.0003
			321	418	8.8583	8.8571	8.8583	8.8594	.0012	8.8565	8.8583	.0003
		226	322		9.0551	9.0539	9.0551	9.0562	.0012	9.0533	9.0551	.0003
					9.4488	9.4476	9.4488	9.4499	.0012	9.4470	9.4488	.0003

**CHROME ALLOY STEEL BALLS****TOLERANCE SPECIFICATIONS—CHROME STEEL BALLS****Weights of Balls**

Size	Weight Per Ball in Lbs.	Number Balls Per Carton
$\frac{3}{64}$	.....	5,000
$\frac{1}{16}$	.....	5,000
$\frac{5}{64}$	.....	5,000
$\frac{3}{32}$	.000121	5,000
$\frac{1}{8}$	.000288	5,000
$\frac{5}{32}$	.000563	5,000
$\frac{3}{16}$	.000972	5,000
$\frac{7}{32}$	.001543	5,000
$\frac{1}{4}$	.00230	4,000
$\frac{9}{32}$	.00328	3,000
$\frac{5}{16}$	.00450	2,000
$\frac{11}{32}$	.00599	1,500
$\frac{3}{8}$	.00777	1,000
$\frac{13}{32}$	.00988	1,000
$\frac{7}{16}$	.01234	800
$\frac{15}{32}$	.01518	600
$\frac{1}{2}$	.01843	500
$\frac{9}{16}$	.02623	350
$\frac{5}{8}$	.03599	250
$\frac{11}{16}$	.04790	200
$\frac{3}{4}$	.06218	150
$\frac{13}{16}$	.07906	100
$\frac{7}{8}$	.09875	90
$\frac{15}{16}$	.12145	75
1	.14741	60
$\frac{11}{16}$	.17680	50
$\frac{11}{8}$	.20987	40
$\frac{13}{16}$	.24683	35
$\frac{11}{4}$	.28789	30
$\frac{13}{16}$	.33327	25
$\frac{13}{8}$	.38318	24
$\frac{17}{16}$	.43786	15
$\frac{11}{2}$	.49748	15
$\frac{19}{16}$	.56229	12
$\frac{15}{8}$	.63249	10
$\frac{11}{16}$	.70833	8
$\frac{13}{4}$	.78998	8
$\frac{113}{16}$	.87768	8
$\frac{17}{8}$	.97163	6
$\frac{115}{16}$	1.07210	6
2	1.17920	6
$\frac{21}{8}$	1.41441	4
$\frac{21}{4}$	1.67898	4
$\frac{23}{8}$	1.97464	4
$\frac{21}{2}$	2.30313	3
$\frac{25}{8}$	2.65	2
$\frac{23}{4}$	3.05	2
$\frac{27}{8}$	3.49	2
3	3.96	2
$\frac{31}{4}$	5.04	2
$\frac{31}{2}$	6.30	1
$\frac{33}{4}$	7.74	1
4	9.40	1

GRADE AND SIZE	Diameter Tolerance Per Ball (Sphericity)	Diameter Tolerance Per Unit Container
SIZES $\frac{1}{32}$" TO $\frac{11}{2}$" Grade No. 5 Steel Balls	.000005"	Plus or Minus .00001"
SIZES $\frac{1}{32}$" TO $\frac{1}{2}$" Grade No. 10 Steel Balls (formerly Grade No. 0)	.000010"	.00002"
SIZES $\frac{17}{32}$" TO 1" Grade No. 15 Steel Balls (formerly Grade No. 0)	.000015"	.00003"
SIZES $\frac{1}{16}$" TO $\frac{15}{16}$" Grade No. 25 Steel Balls (formerly Grade No. 1) Grade No. 50 Steel Balls (formerly Grade No. 2) Grade No. 200 Steel Balls (formerly Grade No. 3)	.000025" .00005" .0002"	.00005" .0001" .0004"
SIZES $\frac{11}{32}$" TO $\frac{27}{8}$" Grade No. 50 Steel Balls (formerly Grade No. 1) Grade No. 200 Steel Balls (formerly Grade No. 2) Grade No. 500 Steel Balls (formerly Grade No. 3)	.00005" .0002" .0005"	.0001" .0004" .001"
SIZES 3" TO $4\frac{1}{2}$" Grade No. 100 Steel Balls (formerly Grade No. 1) Grade No. 300 Steel Balls (formerly Grade No. 2)	.0001" .0003"	.0002" .0006"
SIZES $\frac{1}{16}$" TO $4\frac{1}{2}$" Grade No. 1000 Steel Balls (formerly Grade No. 4)	.001"	.002"

BALLS AVAILABLE IN ANY DESIRED MATERIAL INCLUDING:

- Titanium
- Hollow Balls
- Sintered Carbides
- Stellite Alloys
- Plastics
- Carbon Balls
- Synthetic Sapphire
- Ceramics

and any other workable material required to meet specifications for hardness, weight, strength or resistance to corrosion, abrasion and temperature.

Consult our engineers for information about unusual ball applications.

CHROME ALLOY STEEL BALLS

Chrome Alloy Steel Balls are made from specially selected AISI E52100 steel.

All grades are produced from the same material; each ball is individually inspected and gauged. The only difference between one grade and another is in their respective limits of accuracy.

These balls are uniformly through hardened (not case hardened). Depending on size the hardness range will run from 63 to 66 Rockwell C-Scale.

ORDER IN CARTON QUANTITIES

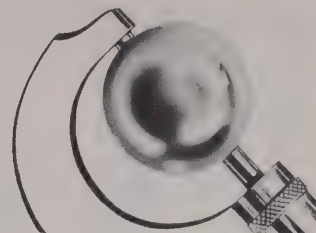
Balls are supplied in packages or cartons sealed, oiled and labeled as to grade and quantity. It is poor economy to order in broken lots of less than box or carton quantities. To supply small quantities of balls means that they are removed from their sealed containers, are hand counted, sometimes causing corrosion on the highly polished surfaces. Furthermore, when purchased in package lots they are less expensive.

If the full carton quantities are too excessive of actual requirements order "PACKAGED" Steel Balls, available from sizes $\frac{3}{32}$ " dia. to 1" inclusive. See chart below for number of balls per box.

"PACKAGED" STEEL BALLS	Ball Size	$\frac{3}{32}$	$\frac{1}{8}$	$\frac{5}{32}$	$\frac{3}{16}$	$\frac{7}{32}$	$\frac{1}{4}$	$\frac{9}{32}$	$\frac{5}{16}$	$\frac{11}{32}$	$\frac{3}{8}$	$\frac{13}{32}$	$\frac{7}{16}$	$\frac{15}{32}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{5}{8}$	$\frac{11}{16}$	$\frac{3}{4}$	$\frac{13}{16}$	$\frac{7}{8}$	$\frac{15}{16}$	1
	Balls Per Box	150	225	200	175	125	100	80	65	55	45	40	30	25	20	15	10	8	6	5	4	4	4



BALLS BRONZE, MONEL AND STAINLESS STEEL GRADES AND TOLERANCES



STAINLESS STEEL AND MONEL

STAINLESS STEEL (Type 440)

Grade	Size Range	Diameter Tolerance Per Ball	Diameter Tolerance Per Unit Container
5	$\frac{1}{32}$ - $\frac{3}{4}$ "	.000005"	.00001"
10	$\frac{1}{32}$ - $\frac{3}{4}$ "	.000010"	.00002"
50	$\frac{1}{32}$ - 2"	.00005"	.0001"
100	$\frac{1}{32}$ - 2 $\frac{5}{8}$ "	.0001"	.0002"
200	$\frac{1}{32}$ - 2 $\frac{5}{8}$ "	.0002"	.0004"

Stainless Steel Balls, Type 440, regardless of grade, are uniformly through-hardened as follows:

$\frac{1}{32}$ " - $\frac{1}{2}$ " - 60-63 Rockwell C

Over $\frac{1}{2}$ " - 55-60 Rockwell C

Type 440 Stainless Steels are magnetic.

STAINLESS STEEL (Type 329)

Grade	Size Range	Diameter Tolerance Per Ball	Diameter Tolerance Per Unit Container
200	$\frac{5}{8}$ - 2"	.0002"	.0004"
300	2 $\frac{1}{8}$ - 2 $\frac{1}{2}$ "	.0003"	.0006"

Balls made of Type 329 Stainless Steel are precipitation hardened. They are not quite as hard as Type 440 Stainless Balls, but are considerably harder than balls of Type 302 or 316. Hardness of Type 329 is:

45-52 Rockwell C

Type 329 Stainless Steel Balls are practically non-magnetic.

Stainless Steel Balls are used for valve and ball bearing applications where resistance to corrosion is desired.

MONEL METAL

Grade	Size Range	Diameter Tolerance Per Ball	Diameter Tolerance Per Unit Container
200	$\frac{1}{16}$ - 1"	.0002"	.0004"
500	$\frac{1}{16}$ - $\frac{3}{4}$ "	.0005"	.001"

Monel Metal Balls are made to the following hardness: 160-200 Brinell

Monel Metal Balls are commercially non-magnetic.

Monel Metal Balls are resistant to corrosion and are often specified for steam and gas valves, also in locations where the balls come in contact with food products.

WEIGHT DATA

In weight, Stainless Steel, Monel Metal and Bronze compare with Steel Balls as follows:

Stainless Steel Balls..... 2% Lighter
Monel Metal Balls..... 13% Heavier
Bronze Balls $\frac{3}{32}$ to $\frac{3}{4}$ 8% Heavier
Bronze Balls $\frac{13}{16}$ to 2 $\frac{1}{2}$ 2% Lighter

BRASS AND BRONZE BALLS

BRASS

Grade	Size Range	Diameter Tolerance Per Ball	Diameter Tolerance Per Unit Container
200	$\frac{1}{16}$ - $\frac{3}{4}$ "	.0002"	.0004"
500	$\frac{1}{16}$ - $\frac{3}{4}$ "	.0005"	.001"

Brass Balls are made to the following hardness: 160-190 Brinell

Brass Balls are commercially non-magnetic.

ALUMINUM BRONZE

Grade	Size Range	Diameter Tolerance Per Ball	Diameter Tolerance Per Unit Container
200	$\frac{13}{16}$ - 2 $\frac{1}{2}$ "	.0002"	.0004"

Aluminum Bronze Balls are made to the following hardness: 225-275 Brinell

Aluminum Bronze balls are commercially non-magnetic.

Brass and Bronze Balls are highly corrosion-resistant and employed in check valves, spray pumps, oil well apparatus, and similar applications.

BRONZE BALLS • MONEL METAL BALLS STAINLESS STEEL BALLS

Size	Number Balls Per Box	Size	Number Balls Per Box	Size	Number Balls Per Box
$\frac{3}{32}$	5,000	$\frac{9}{16}$	250	$\frac{17}{16}$	10
$\frac{1}{8}$	5,000	$\frac{5}{8}$	200	$\frac{11}{2}$	10
$\frac{5}{32}$	5,000	$\frac{11}{16}$	150	$\frac{19}{16}$	8
$\frac{3}{16}$	5,000	$\frac{3}{4}$	100	$\frac{15}{8}$	8
$\frac{7}{32}$	5,000	$\frac{13}{16}$	80	$\frac{111}{16}$	6
$\frac{1}{4}$	4,000	$\frac{7}{8}$	75	$\frac{13}{4}$	6
$\frac{9}{32}$	3,000	$\frac{15}{16}$	60	$\frac{113}{16}$	6
$\frac{5}{16}$	2,000	1	40	$\frac{17}{8}$	4
$\frac{11}{32}$	1,500	$\frac{11}{16}$	30	$\frac{115}{16}$	4
$\frac{3}{8}$	1,000	$\frac{11}{8}$	30	2	4
$\frac{13}{32}$	700	$\frac{13}{16}$	25	$\frac{21}{8}$	4
$\frac{7}{16}$	600	$\frac{11}{4}$	20	$\frac{21}{4}$	3
$\frac{15}{32}$	500	$\frac{15}{16}$	20	$\frac{23}{8}$	3
$\frac{1}{2}$	400	$\frac{13}{8}$	15	$\frac{21}{2}$	2

BRINELL BALLS

Chrome Alloy Steel Brinell Balls for use in taking Brinell Hardness readings are available in 5 MM and 10 MM sizes. Three types are offered as shown in table below:

Type Brinell Ball	Rockwell "C" Hardness	Surface Finish	Available Sizes	Minimum Container Quantity
Hultgren Process	68-69	Etched	5 MM	40
			10 MM	20
Special Process	65.5-66	Etched	5 MM	100
			10 MM	50
Atlas	65.5-66	Polished	5 MM	5000
			10 MM	1000



BARDEN SUPER PRECISION BEARINGS

**For Precision Instruments, Machine Tools,
and Special Precision Applications**

Barden Precision bearings are designed and produced to meet the most exacting requirements for minimum torque and vibration, low energy losses, maximum endurance at high speeds or temperatures, or other performance characteristics.



BARDEN PREFIX AND SUFFIX DESIGNATIONS

PREFIXES

S—440C Stainless Steel.

SUFFIXES

D—Duplex matched pairs.

FF—Flexeal; high speed, low torque rubbing seals of fiber-aluminum laminate.

HJB—High temperature, high speed "halo" bronze retainer; for air and gas turbine applications.

K—Standard stainless steel, one- or two-piece retainers.

SS—Double stainless steel shields.

T—Aluminum-reinforced phenolic retainer for moderate and

high speed applications; may follow symbol SS to cover shielded bearing variation.

TA—One-piece, snap type phenolic retainer for high speeds.

BQ—One-piece Delrin retainer.

TQ—One-piece, snap type Delrin retainer.

W—Two-piece pressed stainless steel anti-windup retainer for gyro gimbals and other instrument applications.

Duplex matched pairs may be obtained in all Barden sizes listed on these pages. DB and DF pairs support combined radial and thrust loads in either direction. DT pairs support combined radial and thrust loads in one direction only.

FLEXEAL AND ANGULAR CONTACT TYPES

BEARING NUMBER						BOUNDARY DIMENSIONS						
Unflanged		Flanged		Unflanged	Unflanged							
Steel Retainer	Phenolic Retainer	Steel Retainer	Phenolic Retainer	Open	Open	B	D	W	Ws	A	F	Fs
SR1-5FF	SR1-5FTA	SFR1-5FF	SFR1-5FTA	R1-5H*	R1-5B*	.0937	.3125	.1094	.1406	.359	.023	.031
SR2-5FF	SR2-5FTA	SFR2-5FF	SFR2-5FTA	R2-5H*	SR2-5B	.1250	.3125	.1094	.1406	.359	.023	.031
SR2FF	SR2FTA	SFR2FF	SFR2FTA	SR2H	SR2B	.1250	.3750	.1562	.1562	.440	.030	.030
SR3FF	SR3FFT			SR3H	SR3B	.1875	.5000	.1562	.1960			
		SFR3FF	SFR3FFT			.1875	.5000	.1960	.1960	.565	.042	.042
SR4FF	SR4FFT	SFR4FF	SFR4FFT	SR4H	SR4B	.2500	.6250	.1960	.1960	.690	.042	.042
SR6FF						.3750	.8750	.2188	.2812			
		SFR6FF				.3750	.8750	.2812	.2812	.969	.062	.062
SR8FF						.5000	1.1250	.2500	.3125			

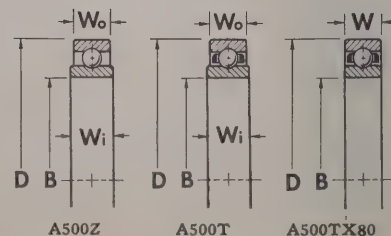
Sealed bearings: Suffix FF denotes double seal; F denotes single seal.

*Available in chrome steel only.

TORQUE TUBE-ULTRA LIGHT SERIES A-500-440C STAINLESS STEEL

BEARING NUMBER			DIMENSIONS—INCHES				
Spring Separator	Phenolic Separator	Duplexing Type	B	D	Wi	Wo	W
A538Z	A538T	A538TX80	.6250	1.0625	.2812	.2500	.2500
A539Z	A539T	A539TX80	.7500	1.1875	.2812	.2500	.2500
A540Z	A540T	A540TX80	.8750	1.3125	.2812	.2500	.2500
A541Z	A541T	A541TX80	1.0625	1.5000	.2812	.2500	.2500
A542Z	A542T	A542TX80	1.3125	1.7500	.2812	.2500	.2500
A543Z	A543T	A543TX80	1.5625	2.0000	.2812	.2500	.2500

The extremely thin section of A-500 bearings makes them highly desirable for light duty, low friction applications, where bearing space is limited. A500TX80 Series is designed for duplex mounting in preloaded pairs.

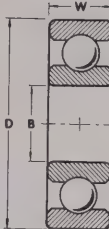
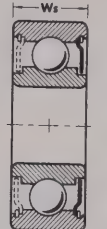


NEED HELP ON BEARINGS—CALL US

BARDEN SUPER PRECISION BEARINGS

STAINLESS STEEL—INCH TYPE

MINIATURE AND INSTRUMENT SIZES

BEARING NUMBER						BOUNDARY DIMENSIONS									
						Open 		Shielded 		Open 		Shielded 			
Deep groove. One- or two-piece pressed steel retainer. Low torque. Moderate speeds and loads.						Deep groove. One- or two-piece phenolic retainer. High speed, moderate loads.									
Unflanged		Flanged		Unflanged		B	D	W	Ws	A	F	Fs			
Open	Shielded	Open	Shielded	Open	Shielded										
SR0K	SR0SS	SFR0K	SFR0SS			.0469	.1562	.0625	.0937	.203	.013	.031			
SR1K	SR1SS	SFR1K	SFR1SS			.0550	.1875	.0781	.1094	.234	.023	.031			
	SR133SSWX3					.0781	.1875		.0937						
SR1-4K	SR1-4SS	SFR1-4K	SFR1-4SS	SR1-4TA	SR1-4SSTA	.0781	.2500	.0937	.1406	.296	.023	.031			
SR133K	SR133SS	SFR133K	SFR133SS			.0937	.1875	.0625	.0937	.234	.018	.031			
	SR143SSWX3					.0937	.2500		.0937						
	SR143SS					.0937	.2500		.1094						
SR1-5K	SR1-5SS	SFR1-5K	SFR1-5SS	SR1-5TA	SR1-5SSTA	.0937	.3125	.1094	.1406	.359	.023	.031			
	SR144SSWX3					.1250	.2500		.0937						
SR144K	SR144SS	SFR144K	SFR144SS	SR144TA	SR144STA	.1250	.2500	.0937	.1094	.296	.023	.031			
	SR154SX1					.1250	.3125		.1094						
	SR2-5SX2					.1250	.3125		.1094						
SR2-5K	SR2-5SS	SFR2-5K	SFR2-5SS	SR2-5TA	SR2-5SSTA	.1250	.3125	.1094	.1406	.359	.023	.031			
	SR164SSWX3					.1250	.3750		.0937						
	SR2SSX52					.1250	.3750		.1094						
SR2-6K	SR2-6SS	SFR2-6K	SFR2-6SS	SR2-6TA	SR2STA	.1250	.3750	.1094	.1406	.422	.023	.031			
SR2K	SR2SS	SFR2K	SFR2SS	SR2TA		.1250	.3750	.1562	.1562	.440	.030	.030			
	SR174SSWX5					.1250	.4100		.0937						
SR174WX9	SR174SSWX9					.1250	.4250	.0937	.0937						
	SR174SSX2					.1250	.4250		.1094						
	SR174SSWX6					.1250	.4375		.0937						
	SR184SSX2					.1250	.5000		.1094						
SR2A	SR2ASS			SR2ATA	SR2ASSTA	.1250	.5000	.1719	.1719						
	SR194SSWX2					.1250	.5769		.1250						
	SR1204SSWX1					.1250	.7500		.1250						
SR155K	SR155SS	SFR155K	SFR155SS			.1562	.3125	.1094	.1250	.359	.023	.036			
SR156K	SR156SS	SFR156K	SFR156SS			.1875	.3125	.1094	.1250	.359	.023	.036			
SR166W	SR166SSW	SFR166K	SFR166SS	SR166TA	SR166SSTA	.1875	.3750	.1250	.1250	.422	.023	.031			
SR186WX1						.1875	.5000	.1094							
	SR186SSWX2					.1875	.5000		.1562						
		SFR3X3				.1875	.5000	.1562		.565	.042				
SR3K	SR3SS	SFR3K	SFR3SS	SR3T	SR3SST	.1875	.5000	.1562	.1960						
						.1875	.5000	.1960	.1960	.565	.042	.042			
SR3X8	SR3SSX8					.1875	.7500	.1960	.1960						
SR3X23	SR3SSX23					.1875	.8750	.1960	.1960						
SR168K	SR168SS	SFR168K	SFR168SS			.2500	.3750	.1250	.1250	.422	.023	.036			
SR188W	SR188SSW	SFR188K	SFR188SS			.2500	.5000	.1250	.1875	.547	.023	.045			
SR4K	SR4SS	SFR4K	SFR4SS	SR4T	SR4SST SR4ASST	.2500	.6250	.1960	.1960	.690	.042	.042			
SR4A	SR4ASS					.2500	.7500	.2188	.2812						
	SR4SSX35					.2500	1.0480		.1960						
SR6K	SR6SS	SFR6K	SFR6SS			.3750	.8750	.2188	.2812						
						.3750	.8750	.2812	.2812	.969	.062	.062			
						.5000	.8750	.2188							
SR8K	SR8SS			Z114TA*		.5000	1.1250	.2500	.3125						
SR10K	SR10SS			SR10T		.6250	1.3750	.2812	.3438						

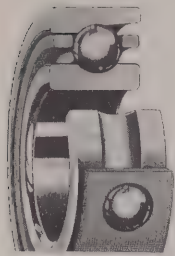
Most sizes above can now be furnished with "W" type retainers. Check for availability.

Shielded bearings: Suffix SS denotes double shield; for single shield use suffix S.

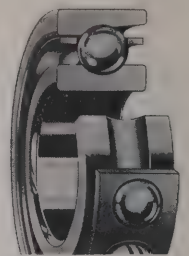
* Available in chrome steel only.

BARDEN SUPER PRECISION BEARINGS**CHROME STEEL—METRIC SIZES****For Spindle and Turbine Applications**

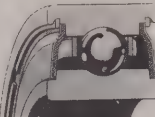
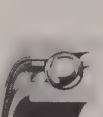
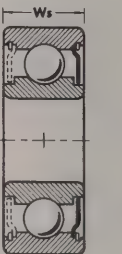
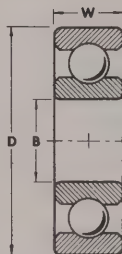
Manufactured to Barden Precision tolerances which at least equal ABEC-7 for all principal dimensional tolerances. Other critical features, such as ball size and roundness, raceway finish and roundness, are held to even more exacting specifications.



"Halo" Phenolic Separator



"Halo" Bronze Separator

BEARING NUMBER									BOUNDARY DIMENSIONS								
									Open or Shielded 								
Deep groove, unflanged. Two-piece pressed steel retainer. <i>Moderate speeds and loads, moderate to high temperatures.</i>		Deep groove, unflanged. Phenolic-aluminum retainer. <i>High speed, moderate temperatures and loads.</i>		Deep groove, unflanged. FLEXEAL low-friction seals. Two-piece pressed steel or phenolic-aluminum retainer. <i>High speed, moderate temperatures and loads.</i>		Angular contact, non-separable. Phenolic "halo" retainer. <i>High speed, moderate temperatures, moderate to high loads.</i>	Angular contact, non-separable. Bronze "halo" retainer. <i>High speed, high temperatures, moderate to high loads.</i>	Angular contact, separable. Phenolic or Delrin retainer. <i>High speed, moderate temperatures and loads.</i>									
Open	Shielded	Open	Shielded	Steel Retainer	Phenolic Retainer	Open	Open	Open	B		D		W				
									Mm	Inches	Mm	Inches	Mm	Inches			
34K						34H		34BX4	4	.1575	16	.6299	5	.1969			
34-5K	34-5SS	34-5T	34-5SSTX9			34-5H		34-5B	5	.1969	16	.6299	5	.1969			
												5	.1969	16	.6299	10	.3937
35K	35SS	35T										5	.1969	19	.7480	6	.2362
36K	36SS	36T										6	.2362	19	.7480	6	.2362
37K	37SS		37SSTX2	37FF	37FFTX2	37H	37HJB		7	.2756	22	.8661	7	.2756			
												7	.2756	22	.8661	10.3	.4060
38K	38SS								38H	38HJB	38BX2*	8	.3150	22	.8661	7	.2756
												8	.3150	22	.8661	10.3	.4060
			38SSTX2														
			38SSTX6														
									8	.3150	24	.9449	10.3	.4060			
39K	39SS	39T	100SSTX1	100FF	100FFTX1	39H			9	.3543	26	1.0236	8	.3150			
100K	100SS	100T							100H	100HJB		10	.3937	26	1.0236	8	.3150
												10	.3937	26	1.0236	11.5	.4531
200K	200SS	200T							200H	200HJB		10	.3937	30	1.1811	9	.3543
		101T				101H	101HJB	101BQX8	12	.4724	28	1.1024	8	.3150			
			101SSTX1		101FFTX1				12	.4724	28	1.1024	11.5	.4531			
201K	201SS	201T	201SSTX1	201FF	201FFTX1	201H	201HJB		12	.4724	32	1.2598	10	.3937			
												13	.5118	32	1.2598	12.7	.5000
		102T				102H	102HJB	102BQX8	15	.5906	32	1.2598	9	.3543			
202K	202SS	202T	202SST	202FF	202FFT	202H	202HJB		15	.5906	35	1.3780	11	.4331			
			202SSTX1		202FFTX1				15	.5906	35	1.3780	12.7	.5000			
103K	103SS	103T	103SST	103FF	103FFT	103H	103HJB		17	.6693	35	1.3780	10	.3937			
203K	203SS	203T	203SST	203FF	203FFT	203H	203HJB		17	.6693	40	1.5748	12	.4724			
		104T	104SST			104H	104HJB		20	.7874	42	1.6535	12	.4724			
		204T	204SST		204FFT	204H	204HJB		20	.7874	47	1.8504	14	.5512			
		105T				105H	105HJB		25	.9843	47	1.8504	12	.4724			
		205T	205SST	205FF	205FFT	205H	205HJB		25	.9843	52	2.0472	15	.5906			
205K	205SS	106T	106SST			106H	106HJB		30	1.1811	55	2.1654	13	.5118			
		206T	206SST		206FFT	206H	206HJB		30	1.1811	62	2.4409	16	.6299			
107K	107SS	107T	107SST			107H	107HJB		35	1.3780	62	2.4409	14	.5512			
		207T	207SST			207H	207HJB		35	1.3780	72	2.8346	17	.6693			
		208T				208H			40	1.5748	80	3.1496	18	.7087			
		209T				209H			45	1.7717	85	3.3465	19	.7480			

FAFNIR BALL BEARINGS 200, 300, 400 RADIAL SERIES

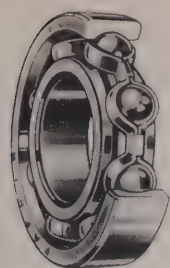
(Metric)

Unshielded and Shielded Types

The Conrad or Non-Filling Slot Type carries the same diameter of ball as the Maximum Ball Type, but contains fewer of them, generally $\frac{2}{3}$ to $\frac{3}{4}$ of the number found in the Maximum Type. These two general types will be hereafter referred to as the *Non-Filling Slot Type* and the *Maximum Type*, identified by the symbols "K" and "W," respectively.

Due to the fact that bearing capacity is also dependent upon the number of balls in a bearing, the Maximum Type will be found to have capacity approximately 50% greater than the Non-Filling Slot Type, and is consequently used where the ultimate capacity in a specific bearing size is required.

Ball Bearings having "D" and "DD" metal grease shields are successfully used in many applications, but where unusually dirty conditions exist additional covers, grease baffles, etc., should be employed.



Conrad
K Type

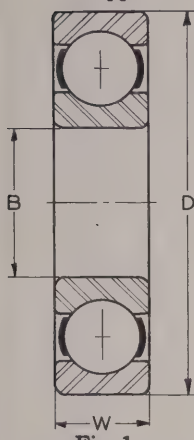


Fig. 1
K and W Types
(Unshielded)

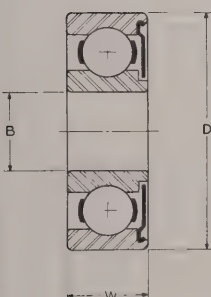


Fig. 2
K and W Types
(Shield on one side)

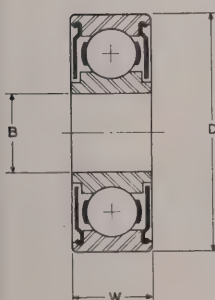


Fig. 3
K and W Types
(Shields on two
sides)



Maximum
W Type

LIGHT SERIES

BEARING TYPE AND NO.				BORE (B)		OUT. DIA. (D)		WIDTH (W)		BALLS			
K Type Fig. 1	W Type Fig. 1	D Single Shield Fig. 2	DD Double Shield Fig. 3	Mm	Inches	Mm	Inches	Mm	Inches	TYPE K		TYPE W	
										No.	Size	No.	Size
200-K		200-D	200-DD	10	0.3937	30	1.1811	9	0.3543	7	$\frac{7}{16}$	..	..
201-K		201-D	201-DD	12	0.4724	32	1.2598	10	0.3937	7	$\frac{15}{32}$	..	..
202-K	202-W	202-D	202-DD	15	0.5906	35	1.3780	11	0.4331	7	$\frac{1}{4}$	10	$\frac{1}{4}$
203-K		203-D	203-DD	17	0.6693	40	1.5748	12	0.4724	8	$\frac{9}{16}$	..	..
204-K	204-W	204-D	204-DD	20	0.7874	47	1.8504	14	0.5512	8	$\frac{5}{16}$	10	$\frac{11}{16}$
205-K	205-W	205-D	205-DD	25	0.9843	52	2.0472	15	0.5906	9	$\frac{9}{16}$	12	$\frac{11}{16}$
206-K	206-W	206-D	206-DD	30	1.1811	62	2.4409	16	0.6299	8	$\frac{13}{32}$	12	$\frac{13}{32}$
207-K	207-W	207-D	207-DD	35	1.3780	72	2.8346	17	0.6693	8	$\frac{15}{32}$	12	$\frac{15}{32}$
208-K	208-W	208-D	208-DD	40	1.5748	80	3.1496	18	0.7087	9	$\frac{1}{2}$	13	$\frac{1}{2}$
209-K	209-W	209-D	209-DD	45	1.7717	85	3.3465	19	0.7480	9	$\frac{1}{2}$	14	$\frac{1}{2}$
210-K	210-W	210-D	210-DD	50	1.9685	90	3.5433	20	0.7874	10	$\frac{1}{2}$	15	$\frac{1}{2}$
211-K	211-W	211-D	..	55	2.1654	100	3.9370	21	0.8268	10	$\frac{9}{16}$	14	$\frac{9}{16}$
212-K	212-W	212-D	212-DD	60	2.3622	110	4.3307	22	0.8661	10	$\frac{5}{8}$	15	$\frac{5}{8}$
213-K	213-W	..	..	65	2.5591	120	4.7244	23	0.9055	10	$\frac{5}{8}$	15	$\frac{11}{16}$
214-K	214-W	214-D	..	70	2.7559	125	4.9213	24	0.9449	10	$\frac{11}{16}$	16	$\frac{11}{16}$
215-K	215-W	215-D	..	75	2.9528	130	5.1181	25	0.9843	10	$\frac{11}{16}$	17	$\frac{11}{16}$
216-K	216-W	..	..	80	3.1496	140	5.5118	26	1.0236	..	..	17	$\frac{3}{4}$
217-K	217-W	..	..	85	3.3465	150	5.9055	28	1.1024	..	..	16	$\frac{13}{16}$
218-K	218-W	..	..	90	3.5433	160	6.2992	30	1.1811	10	$\frac{7}{8}$	16	$\frac{7}{8}$
219-K	219-W	..	..	95	3.7402	170	6.6929	32	1.2598	..	..	16	$\frac{15}{16}$
220-K	220-W	..	..	100	3.9370	180	7.0866	34	1.3386	..	..	16	1
221-K	221-W	..	..	105	4.1339	190	7.4803	36	1.4173	..	..	15	$\frac{1}{16}$
222-K	222-W	..	..	110	4.3307	200	7.8740	38	1.4961	..	..	16	$\frac{1}{8}$
224-W3	..	..	..	120	4.7244	215	8.4646	40	1.5748	..	..	14	$\frac{1}{2}$
226-W3	..	..	..	130	5.1181	230	9.0551	40	1.5748	..	..	16	$\frac{1}{4}$

MEDIUM SERIES

300-K	300-D	300-DD	10	0.3937	35	1.3780	11	0.4331	6	$\frac{9}{16}$	..	..
301-K	301-D	301-DD	12	0.4724	37	1.4567	12	0.4724	6	$\frac{9}{16}$	..	..
302-K	302-D	302-DD	15	0.5906	42	1.6535	13	0.5118	6	$\frac{11}{16}$	..	..
303-K	303-W	303-D	17	0.6693	47	1.8504	14	0.5512	7	$\frac{11}{16}$	9	$\frac{3}{8}$
304-K	304-W	304-D	20	0.7874	52	2.0472	15	0.5906	7	$\frac{5}{8}$	9	$\frac{1}{2}$
305-K	305-W	305-D	25	0.9843	62	2.4409	17	0.6693	7	$\frac{15}{32}$	10	$\frac{15}{32}$
306-K	306-W	306-D	30	1.1811	72	2.8346	19	0.7480	7	$\frac{17}{32}$	10	$\frac{17}{32}$
307-K	307-W	307-D	35	1.3780	80	3.1496	21	0.8268	7	$\frac{9}{16}$	11	$\frac{9}{16}$
308-K	308-W	308-D	40	1.5748	90	3.5433	23	0.9055	8	$\frac{5}{8}$	12	$\frac{5}{8}$
309-K	309-W	309-D	45	1.7717	100	3.9370	25	0.9843	8	$\frac{11}{16}$	12	$\frac{11}{16}$
310-K	310-W	310-D	50	1.9685	110	4.3307	27	1.0630	8	$\frac{3}{4}$	12	$\frac{3}{4}$
311-K	311-W	311-D	55	2.1654	120	4.7244	29	1.1417	8	$\frac{13}{16}$	12	$\frac{13}{16}$
312-K	312-W	312-D	60	2.3622	130	5.1181	31	1.2205	8	$\frac{7}{8}$	12	$\frac{7}{8}$
313-K	313-W	313-D	65	2.5591	140	5.5118	33	1.2992	8	$\frac{15}{16}$	13	$\frac{15}{16}$
314-K	314-W	314-D	70	2.7559	150	5.9055	35	1.3780	8	1	12	1
315-K	315-W	315-D	75	2.9528	160	6.2992	37	1.4567	8	$\frac{1}{16}$	12	$\frac{1}{8}$
316-K	316-W	316-D	80	3.1496	170	6.6929	39	1.5354	8	$\frac{1}{8}$	12	$\frac{1}{8}$
317-K	317-W	317-D	85	3.3465	180	7.0866	41	1.6142	8	$\frac{1}{4}$	12	$\frac{1}{4}$
318-K	318-W	..	90	3.5433	190	7.4803	43	1.6929	8	$\frac{1}{2}$	12	$\frac{1}{2}$
319-K	319-W	..	95	3.7402	200	7.8740	45	1.7717	..	..	12	$\frac{3}{8}$
320-K	320-W	..	100	3.9370	215	8.4646	47	1.8504	..	..	12	$\frac{1}{2}$
321-K	321-W	..	105	4.1339	225	8.8583	49	1.9291	..	..	12	$\frac{1}{2}$
322-K	322-W	..	110	4.3307	240	9.4488	50	1.9685	..	..	12	$\frac{1}{2}$
324-W	..	..	120	4.7244	260	10.2362	55	2.1654	..	..	11	$\frac{3}{4}$
330-W*	..	..	150	5.9055	320	12.5984	65	2.5591	..	..	11	$\frac{1}{2}$

HEAVY SERIES

404-K	404-W	..	20	0.7874	72	2.8346	19	0.7480	..	$\frac{5}{8}$	8	$\frac{9}{16}$
405-K	405-W	..	25	0.9843	80	3.1496	21	0.8268	6	$\frac{11}{16}$	8	$\frac{1}{16}$
406-K	406-W	..	30	1.1811	90	3.5433	23	0.9055	6	$\frac{13}{16}$	9	$\frac{3}{8}$
407-K	407-W	..	35	1.3780	100	3.9370	25	0.9843	6	$\frac{15}{16}$	9	$\frac{1}{2}$
408-K	408-W	..	40	1.5748	110	4.3307	27	1.0630	7	$\frac{17}{32}$	10	$\frac{7}{8}$
409-K	409-W	409-D	45	1.7717	120	4.7244	29	1.1417	7	$\frac{19}{32}$	10	$\frac{29}{32}$
410-K	410-W	..	50	1.9685	130	5.1181	31	1.2205	7	1	10	1
411-K	411-W	411-D	55	2.1654	140	5.5118	33	1.2992	7	$\frac{1}{16}$	10	$\frac{1}{16}$
412-K	412-W	..	60	2.3622	150	5.9055	35	1.3780	7	$\frac{1}{8}$	10	$\frac{1}{8}$
413-K	413-W	413-D	65	2.5591	160	6.2992	37	1.4567	7	$\frac{1}{4}$	10	$\frac{1}{4}$
414-K	414-W	414-D	70	2.7559	180	7.0866	42	1.6535	..	..	10	$\frac{1}{8}$
415-K	415-W	..	75	2.9528	190	7.4803	45	1.7717	..	..	10	$\frac{1}{16}$
416-K	416-W	..	80	3.1496	200	7.8740	48	1.8898	..	..	9	$\frac{1}{8}$
417-K	417-W	..	85	3.3465	210	8.2677	52	2.0472	..	..	9	$\frac{1}{8}$
418-K	418-W	..	90	3.5433	225	8.8583	54	2.1260	..	..	10	$\frac{1}{4}$
*419-W	..	..	95	3.7402	250	9.8425	55	2.1654	..	..	10	$\frac{1}{16}$

*SAE Standard is 240 MM O.D.

Check for availability.

Check for availability.

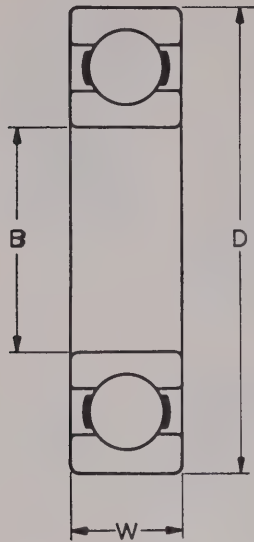
NEED HELP ON BEARINGS—CALL US

FAFNIR BALL BEARINGS

EXTRA LARGE METRIC

SINGLE ROW

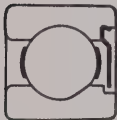
Check for Availability before Incorporating in new designs



BEARING NUMBER		BORE (B)		OUTSIDE DIA. (D)		WIDTH (W)	
Radial Type	Counterbore Type	Mm	Inches	Mm	Inches	Mm	Inches
120W2		100	3.9370	160	6.2992	28	1.1024
122W		110	4.3307	175	6.8898	30	1.1811
124W	124WI	120	4.7244	190	7.4803	32	1.2598
126W	126WI	130	5.1181	205	8.0709	34	1.3386
128W	128WI	140	5.5118	220	8.6614	36	1.4173
130W		150	5.9055	235	9.2520	38	1.4961
132W		160	6.2992	250	9.8425	40	1.5748
134W		170	6.6929	265	10.4331	42	1.6535
138W		190	7.4803	300	11.8110	46	1.8110
224W		120	4.7244	215	8.4646	42	1.6535
224W3		120	4.7244	215	8.4646	40	1.5748
226W		130	5.1181	230	9.0551	46	1.8110
228W		140	5.5118	250	9.8425	50	1.9685
276K2		...	15.0000	...	19.0000	...	2.0000
324W		120	4.7244	260	10.2362	55	2.1654

WITH SINGLE SHIELD

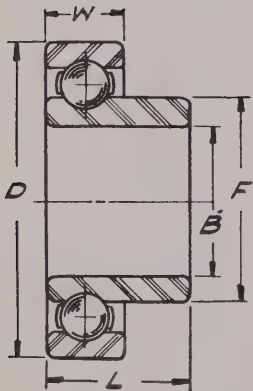
One Shield



BEARING NUMBER SINGLE SHIELD	BORE (B)		OUTSIDE DIA. (D)		WIDTH (W)	
	Mm	Inches	Mm	Inches	Mm	Inches
120WD2	100	3.9370	160	6.2992	28	1.1024
122WD2N	110	4.3307	175	6.8898	35	1.3780
124WD	120	4.7244	190	7.4803	32	1.2598
126WD	130	5.1181	205	8.0709	34	1.3386
128WD	140	5.5118	220	8.6614	36	1.4173
130WD	150	5.9055	235	9.2520	38	1.4961
132WD	160	6.2992	250	9.8425	40	1.5748
136WD2N	180	7.0866	280	11.0236	49	1.9291

WIR TYPE EXTENDED INNER RING BEARINGS

This bearing is a standard Single Row Radial Type except that the inner ring is extended on one side to the conventional Double Row width. It is particularly adapted to electric motor applications where a Double Row Bearing may be required on the pulley end. By using a WIR Type opposite, the motor end bells may be made interchangeable without the additional cost of using another Double Row Bearing.



Bearing No.	BORE (B)		OUTSIDE DIA. (D)		WIDTH (W)		WIDTH	O.D. of INNER
	Mm	Inches	Mm	Inches	Mm	Inches	(L)	(F)
WIR204	20	.7874	47	1.8504	14	.5512	.8125	1.079
WIR207	35	1.3780	72	2.8346	17	.6693	1.0625	1.825
WIR208	40	1.5748	80	3.1496	18	.7087	1.1875	2.063
WIR209	45	1.7717	85	3.3465	19	.7480	1.1875	2.260
WIR210	50	1.9685	90	3.5433	20	.7874	1.1875	2.456
WIR211	55	2.1654	100	3.9370	21	.8268	1.3125	2.714
WIR212	60	2.3622	110	4.3307	22	.8661	1.4375	2.972
WIR213	65	2.5591	120	4.7244	23	.9055	1.5000	3.230
WIR305	25	.9843	62	2.4409	17	.6693	1.0000	1.432
WIR306	30	1.1811	72	2.8346	19	.7480	1.1875	1.690
WIR307	35	1.3780	80	3.1496	21	.8268	1.3750	1.927
WIR308	40	1.5748	90	3.5433	23	.9055	1.4375	2.185
WIR309	45	1.7717	100	3.9370	25	.9843	1.5625	2.442
WIR310	50	1.9685	110	4.3307	27	1.0630	1.7500	2.700
WIR311	55	2.1654	120	4.7244	29	1.1417	1.9375	2.958
WIR312	60	2.3622	130	5.1181	31	1.2205	2.1250	3.210
WIR313	65	2.5591	140	5.5118	33	1.2992	2.3125	3.478
WIR314	70	2.7559	150	5.9055	35	1.3780	2.5000	3.731
WIR315	75	2.9528	160	6.2992	37	1.4567	2.6875	3.951
WIR316	80	3.1496	170	6.6929	39	1.5354	2.6875	4.209
WIR318	90	3.5433	190	7.4803	43	1.6929	2.8750	4.729
WIR319	95	3.7402	200	7.8740	45	1.7717	3.0625	4.987
WIR320	100	3.9370	215	8.4646	47	1.8504	3.2500	5.306

NEED HELP ON BEARINGS—CALL US



Non-Filling Slot



Filling Slot Type

FAFNIR BALL BEARINGS EXTRA LIGHT SERIES

Large Bore — Small Outside Diameter



9100 SERIES—ABEC-1 TOLERANCES

BEARING TYPE AND NO.			BORE (B)		OUTSIDE DIA. (D)		WIDTH (W)		BALLS	
	Single Shield	Double Shield	Mm	Inches	Mm	Inches	Mm	Inches	No.	Size
9100K	.....	9100-KDD	10	.3937	26	1.0236	8	.3150	7	$\frac{3}{16}$
9101K	.....	9101-KDD	12	.4724	28	1.1024	8	.3150	7	$\frac{3}{16}$
9102K	.....	*9102-KDD	15	.5906	32	1.2598	9	.3543	9	$\frac{3}{16}$
9103K	.....	*9103-KDD	17	.6693	35	1.3780	10	.3937	10	$\frac{3}{16}$
9104K	.....	9104-KDD	20	.7874	42	1.6535	12	.4724	8	$\frac{1}{4}$
9105K	9105-KD	9105-KDD	25	.9843	47	1.8504	12	.4724	10	$\frac{1}{4}$
9106K	9106-KD	9106-KDD	30	1.1811	55	2.1654	13	.5118	11	$\frac{5}{32}$
9107K	.....	*9107-KDD	35	1.3780	62	2.4409	14	.5512	11	$\frac{5}{16}$
*9108K	.....	9108-KDD	40	1.5748	68	2.6772	15	.5906	13	$\frac{5}{16}$
9109K	.....	.....	45	1.7717	75	2.9528	16	.6299	13	$\frac{11}{32}$
*9110K	9110-KD	.....	50	1.9685	80	3.1496	16	.6299	14	$\frac{11}{32}$
*9111K	.....	.....	55	2.1654	90	3.5433	18	.7087	13	$\frac{13}{32}$
9112K	.....	.....	60	2.3622	95	3.7402	18	.7087	14	$\frac{13}{32}$
9113K	.....	.....	65	2.5591	100	3.9370	18	.7087	15	$\frac{13}{32}$
9114K	.....	.....	70	2.7559	110	4.3307	20	.7874	14	$\frac{15}{32}$
9115K	.....	.....	75	2.9528	115	4.5276	20	.7874	15	$\frac{15}{32}$
9117K	.....	.....	85	3.3465	130	5.1181	22	.8661	15	$\frac{17}{32}$
9118K	.....	.....	90	3.5433	140	5.5118	24	.9449	14	$\frac{19}{32}$
9120K	9120-KD	.....	100	3.9370	150	5.9055	24	.9449	15	$\frac{19}{32}$
9121K	.....	.....	105	4.1339	160	6.2992	26	1.0236	14	$\frac{21}{32}$
9124K	9124-KD	.....	120	4.7244	180	7.0866	28	1.1024	15	$\frac{11}{16}$
9126K	.....	.....	130	5.1181	200	7.8740	33	1.2992	14	$\frac{13}{16}$
9134	.....	.....	170	6.6929	260	10.2362	42	1.6535	14	$\frac{11}{16}$
9506	.....	.....	30	1.1811	52	2.0472	13	.5118	11	$\frac{7}{16}$

*Also available with snap ring as 9108KG, 9110KG, 9111KG.

*Available with snap ring. Examples: 9102KDDG, 9103KDDG, 9107KDDG

ABEC-3 SPECIAL-PRECISION

BEARING NUMBER		BORE (B)		Inner Ring Eccen. Inches	OUTSIDE DIA. (D)		Outer Ring Eccen. Inches	WIDTH (W) + .000, - .005		Fillet radius Inches	BALLS Non-Filling Slot Type, K		Counter-bore Type, WI	
Non-Filling Slot Type	Counter-Bore Type	Mm	Inches		Mm	Inches		Mm	Inches		No.	Size, Inches	No.	Size, Inches

M9100 SERIES EXTRA LIGHT

M9100K-CR ^Δ	.....	10	.3937	.0002	.0003	26	1.0236	.0003	.0004	8	.3150	.012	7	$\frac{3}{16}$	.....	.....
M9101K-CR ^Δ□	.....	12	.4724	.0002	.0003	28	1.1024	.0003	.0004	8	.3150	.012	8	$\frac{3}{16}$	.....	.....
M9102K□	.....	15	.5906	.0002	.0003	32	1.2598	.0003	.0004	9	.3543	.012	9	$\frac{3}{16}$	.....	.....
M9103K□	.....	17	.6693	.0002	.0003	35	1.3780	.0003	.0004	10	.3937	.012	10	$\frac{3}{16}$	.....	.....
M9104K-CR ^Δ□	.....	20	.7874	.0002	.0003	42	1.6535	.0003	.0004	12	.4724	.024	8	$\frac{1}{4}$	.....	.....
M9105K-CR ^Δ□	.....	25	.9843	.0002	.0003	47	1.8504	.0003	.0004	12	.4724	.024	10	$\frac{1}{4}$	.....	.....
M9106K-CR ^Δ □	2M9106WI-CR	30	1.1811	.0002	.0003	55	2.1654	.0004	.0005	13	.5118	.039	11	$\frac{5}{32}$	14	$\frac{9}{32}$
M9107K-CR ^Δ□	.....	35	1.3780	.0003	.0004	62	2.4409	.0004	.0005	14	.5512	.039	11	$\frac{5}{16}$	.....	.....
M9108K-CR ^Δ □	2M9108WI-CR	40	1.5748	.0003	.0004	68	2.6772	.0004	.0005	15	.5906	.039	12	$\frac{5}{16}$	16	$\frac{5}{16}$
M9109KDD ^Δ	.....	45	1.7717	.0003	.0004	75	2.9528	.0004	.0005	16	.6299	.039	13	$\frac{11}{32}$	.....	.....
.....	2M9110WI-CR	50	1.9685	.0004	.0004	80	3.1496	.0004	.0005	16	.6299	.039	.....	.....	18	$\frac{11}{32}$
M9111K-CR ^Δ□	.....	55	2.1654	.0004	.0004	90	3.5433	.0004	.0007	18	.7087	.039	13	$\frac{13}{32}$	.....	.....
M9112K-CR ^Δ□	.....	60	2.3622	.0004	.0004	95	3.7402	.0004	.0007	18	.7087	.039	14	$\frac{13}{32}$	.....	.....
M9113K-CR	.....	65	2.5591	.0004	.0004	100	3.9370	.0004	.0007	18	.7087	.039	15	$\frac{13}{32}$	.....	.....

M9300 SERIES

M9301K	.....	12	.4724	.0002	.0003	24	.9449	.0003	.0004	6	.2362	.012	9	$\frac{9}{64}$	.....	.....
M9302K	.....	15	.5906	.0002	.0003	28	1.1024	.0003	.0004	7	.2756	.012	10	$\frac{5}{32}$	.....	.....
M9303K	.....	17	.6693	.0002	.0003	30	1.1811	.0003	.0004	7	.2756	.012	11	$\frac{5}{32}$	.....	.....
M9304K	.....	20	.7874	.0002	.0003	37	1.4567	.0003	.0004	9	.3543	.012	11	$\frac{5}{16}$	.....	.....
M9305K□	.....	25	.9843	.0002	.0003	42	1.6535	.0003	.0004	9	.3543	.012	13	$\frac{3}{16}$	.....	.....
M9306K	.....	30	1.1811	.0002	.0003	47	1.8504	.0003	.0004	9	.3543	.012	14	$\frac{3}{16}$	.....	.....
M9307K□	2M9307WI-CR	35	1.3780	.0003	.0004	55	2.1654	.0004	.0005	10	.3937	.024	14	$\frac{7}{32}$	19	$\frac{1}{32}$
M9308K□	.....	40	1.5748	.0003	.0004	62	2.4409	.0004	.0005	12	.4724	.024	14	$\frac{1}{4}$	.....	.....
M9310K□	.....	50	1.9685	.0003	.0004	72	2.8346	.0004	.0005	12	.4724	.024	16	$\frac{17}{64}$	.....	.....
M9311K	2M9311WI-CR	55	2.1654	.0004	.0004	80	3.1496	.0004	.0005	13	.5118	.039	17	$\frac{9}{32}$	23	$\frac{9}{32}$
M9312K□	.....	60	2.3622	.0004	.0004	85	3.3465	.0004	.0007	13	.5118	.039	18	$\frac{9}{32}$	.....	.....
.....	2M9324WI-CR	120	4.7244	.0006	.0006	165	6.4961	.0006	.0009	22	.8661	.039	.....	.....	26	$\frac{17}{32}$

■ Maximum shaft or housing fillet radius which bearing corners will clear.

^Δ Also available with steel retainer.

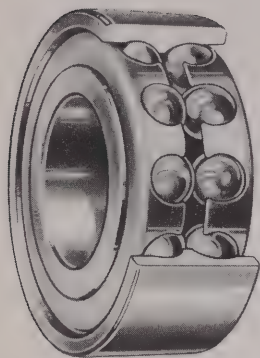
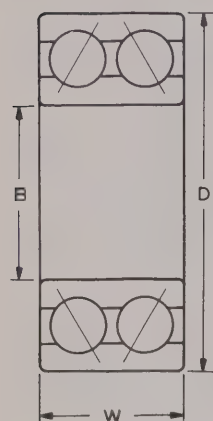
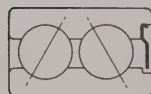
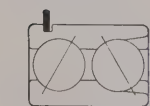
□ Also available with bronze retainer.

^Δ Available only with two shields.

NEED HELP ON BEARINGS—CALL US

FAFNIR BALL BEARINGS**DOUBLE ROW RADIAL THRUST****5200, 5300, 5400 Series**

Fafnir Double Row Bearings offer an easy solution to problems requiring increased axial and radial rigidity in limited space.

**Fig. 1****Standard
Double Row Bearing****Fig. 2****Double Row
with One Grease Shield****Fig. 3****Double Row
with Snap Ring**

Stand. Bearing No. (Fig. 1)	With one Grease Shield (Fig. 2)	With Snap Ring (Fig. 3)	BORE (B)		OUTSIDE DIA. (D)		WIDTH (W)		
			Mm	Inches	Mm	Inches	Unshielded		With one Shield Inches
							(Stand.) Inches	(N)* Inches	

LIGHT SERIES

5200	.....	.....	10	0.3937	30	1.1811	$\frac{9}{16}$	$\frac{1}{2}$	.....
5201	5201-D	.....	12	0.4724	32	1.2598	$\frac{5}{8}$	$\frac{1}{2}$	$\frac{5}{8}$
5202	.....	.....	15	0.5906	35	1.3780	$\frac{5}{8}$	$\frac{1}{2}$	.....
5203	5203-D	.....	17	0.6693	40	1.5748	$\frac{11}{16}$	$\frac{1}{2}$	$\frac{11}{16}$
5204	5204-D	.....	20	0.7874	47	1.8504	$\frac{13}{16}$	$\frac{3}{4}$	$\frac{13}{16}$
5205	5205-D	5205-G	25	0.9843	52	2.0472	$\frac{13}{16}$	$\frac{3}{4}$	$\frac{7}{8}$
5206	5206-D	.....	30	1.1811	62	2.4409	$\frac{13}{16}$	$\frac{3}{4}$	$\frac{1}{16}$
5207	5207-D	.....	35	1.3780	72	2.8346	$\frac{13}{16}$	$\frac{7}{8}$	$\frac{13}{16}$
5208	5208-D	.....	40	1.5748	80	3.1496	$\frac{13}{16}$	1	$\frac{13}{16}$
5209	5209-D	5209-G	45	1.7717	85	3.3465	$\frac{13}{16}$	1	$\frac{13}{16}$
5210	5210-D	5210-G	50	1.9685	90	3.5433	$\frac{13}{16}$	1	$\frac{13}{16}$
5211	5211-D	5211-G	55	2.1654	100	3.9370	$\frac{13}{16}$	$\frac{13}{16}$	$\frac{13}{16}$
5212	5212-D	5212-G	60	2.3622	110	4.3307	$\frac{13}{16}$	$\frac{13}{16}$	$\frac{13}{16}$
5213	5213-D	.....	65	2.5591	120	4.7244	$\frac{13}{16}$	$\frac{13}{16}$	.....
5214	5214-D	.....	70	2.7559	125	4.9213	$\frac{13}{16}$	$\frac{13}{16}$	$\frac{13}{16}$
5215	.....	5215-G	75	2.9528	130	5.1181	$\frac{13}{16}$	$\frac{13}{16}$	.....
5216	*5216-DD	5216-G	80	3.1496	140	5.5118	$\frac{13}{16}$	$\frac{13}{16}$	$\frac{13}{16}$
5217	.....	.....	85	3.3465	150	5.9055	$\frac{13}{16}$	$\frac{13}{16}$	.....
5218	5218-D	.....	90	3.5433	160	6.2992	$\frac{21}{16}$	2	$\frac{21}{16}$
5219	.....	5219-G	95	3.7402	170	6.6929	$\frac{21}{16}$	.....	.....
5220	.....	.....	100	3.9370	180	7.0866	$\frac{23}{16}$	.....	.....
5222	.....	.....	110	4.3307	200	7.8740	$\frac{23}{16}$	.....	.....

*Double Shield Only

MEDIUM SERIES

5302	.....	5303-G	15	0.5906	42	1.6535	$\frac{3}{4}$	.....	.....
5303	.....	5304-G	17	0.6693	47	1.8504	$\frac{7}{8}$	.....	.....
5304	.....	5305-G	20	0.7874	52	2.0472	$\frac{7}{8}$	.....	.....
5305	.....	5306-G	25	0.9843	62	2.4409	1	.....	.....
5306	5306-D	5306-G	30	1.1811	72	2.8346	$\frac{13}{16}$	.....	$\frac{13}{16}$
5307	5307-D	5307-G	35	1.3780	80	3.1496	$\frac{13}{16}$	.....	$\frac{13}{16}$
5308	5308-D	5308-G	40	1.5748	90	3.5433	$\frac{13}{16}$	.....	$\frac{13}{16}$
5309	5309-D	5309-G	45	1.7717	100	3.9370	$\frac{13}{16}$	.....	$\frac{13}{16}$
5310	5310-D	5310-G	50	1.9685	110	4.3307	$\frac{13}{16}$	.....	$\frac{13}{16}$
5311	5311-D	5311-G	55	2.1654	120	4.7244	$\frac{13}{16}$	.....	$\frac{13}{16}$
5312	5312-D	5312-G	60	2.3622	130	5.1181	$\frac{21}{16}$	.....	$\frac{21}{16}$
5313	5313-D	5313-G	65	2.5591	140	5.5118	$\frac{21}{16}$	.....	$\frac{21}{16}$
5314	.....	5314-G	70	2.7559	150	5.9055	$\frac{21}{16}$	.....	.....
5315	.....	.....	75	2.9528	160	6.2992	$\frac{21}{16}$	.....	.....
5316	.....	.....	80	3.1496	170	6.6929	$\frac{21}{16}$	.....	.....
5317	.....	.....	85	3.3465	180	7.0866	$\frac{23}{16}$	.....	.....
5318	.....	.....	90	3.5433	190	7.4803	$\frac{23}{16}$	.....	.....
5319	.....	.....	95	3.7402	200	7.8740	$\frac{31}{16}$	.....	.....
5320	.....	.....	100	3.9370	215	8.4646	$\frac{31}{16}$	.....	.....
5322	.....	.....	110	4.3307	240	9.4488	$\frac{31}{16}$	.....	.....
5324	.....	.....	120	4.7244	260	10.2362	$\frac{41}{16}$	.....	.....
5328	.....	.....	140	5.5118	300	11.8110	$\frac{41}{16}$	.....	.....

HEAVY SERIES

5404	.....	.....	20	0.7874	72	2.8346	$\frac{13}{16}$	.....	.....
5405	.....	.....	25	0.9843	80	3.1496	$\frac{13}{16}$	.....	.....
5406	.....	.....	30	1.1811	90	3.5433	$\frac{13}{16}$	.....	.....
5407	.....	5407-G	35	1.3780	100	3.9370	$\frac{13}{16}$	.....	.....
5408	.....	.....	40	1.5748	110	4.3307	$\frac{13}{16}$	.....	.....
5409	.....	5409-G	45	1.7717	120	4.7244	$\frac{21}{16}$	.....	.....
5410	.....	.....	50	1.9685	130	5.1181	$\frac{21}{16}$	.....	.....
5411	.....	5411-G	55	2.1654	140	5.5118	$\frac{21}{16}$	.....	.....
5412	.....	.....	60	2.3622	150	5.9055	$\frac{21}{16}$	.....	.....
5413	.....	.....	65	2.5591	160	6.2992	$\frac{21}{16}$	.....	.....
5414	.....	.....	70	2.7559	180	7.0866	$\frac{31}{16}$	.....	.....
5415	.....	.....	75	2.9528	190	7.4803	$\frac{31}{16}$	.....	.....
5416	.....	.....	80	3.1496	200	7.8740	$\frac{31}{16}$	.....	.....
5417	.....	.....	85	3.3465	210	8.2677	$\frac{31}{16}$	.....	.....
5418	.....	.....	90	3.5433	225	8.8583	$\frac{31}{16}$	.....	.....

*(N) Designates Narrow Width Denoted by Suffix "N," i.e. 5210-N.

♠Check for availability.

FAFNIR BALL BEARINGS

SINGLE ROW RADIAL-THRUST AND DUPLEX

7000 Series (Metric)

Single Row Radial Thrust Bearings are designed for combination loading with high thrust capacity in one direction only. The thrust capacity of the 7000 PW Type is approximately 300% of its rated radial capacity, as compared with the 150% thrust rating of the 7000 Series.

Duplex Units are available in both the above types, matched either DB (back to back), DF (face to face), or DT (tandem), and are designated by suffix to Bearing Number, as 7310-DB, 7310-DF or 7310-DT.

Single bearings are now available with all faces ground (add suffix FS-230) so that any two individually boxed bearings can be paired to each other in either DB, DF or DT mounting. Example 7210W-FS-230.

7000 Series Single Bearing No.	7000 Duplex Series DB, DF, DT	7000-PW Series Single Bearing No.	BORE (B)		OUTSIDE DIA. (D)		WIDTH (W)			
			Mm	Inches	Mm	Inches	SINGLE BRG. 7000 & 7000-PW TYPES		DUPLEX 7000 SERIES	
							Mm	Inches	Mm	Inches

LIGHT SERIES

7201	7201-DB		12	0.4724	32	1.2598	10	0.3937	20	0.7874
7202	7202-DB		15	0.5906	35	1.3780	11	0.4331	22	0.8661
7203	7203-DB		17	0.6693	40	1.5748	12	0.4724	24	0.9449
7204	7204-DB		20	0.7874	47	1.8504	14	0.5512	28	1.1024
7205	7205-DB		25	0.9843	52	2.0472	15	0.5906	30	1.1811
7206	7206-DB		30	1.1811	62	2.4409	16	0.6299	32	1.2598
7207	7207-DB		35	1.3780	72	2.8346	17	0.6693	34	1.3386
7208	7208-DB		40	1.5748	80	3.1496	18	0.7087	36	1.4173
7209	7209-DB		45	1.7717	85	3.3465	19	0.7480	38	1.4961
7210	7210-DB		50	1.9685	90	3.5433	20	0.7874	40	1.5748
7211	7211-DB		55	2.1654	100	3.9370	21	0.8268	42	1.6535
7212	7212-DB		60	2.3622	110	4.3307	22	0.8661	44	1.7323
7213	7213-DB		65	2.5591	120	4.7244	23	0.9055	46	1.8110
7214	7214-DB		70	2.7559	125	4.9213	24	0.9449	48	1.8898
7215	7215-DB		75	2.9528	130	5.1181	25	0.9843	50	1.9685
.....	7216-DB	7216-PW	80	3.1496	140	5.5118	26	1.0236	52	2.0472
.....	7217-DB	7217-PW	85	3.3465	150	5.9055	28	1.1024	56	2.2047
.....	7218-DB	7218-PW	90	3.5433	160	6.2992	30	1.1811	60	2.3622
.....	7219-DB	7219-PW	95	3.7402	170	6.6929	32	1.2598	64	2.5197
.....	7220-DB	7220-PW	100	3.9370	180	7.0866	34	1.3386	68	2.6772
.....	7222-DB	7222-PW	110	4.3307	200	7.8740	38	1.4961	76	2.9921
.....	7226-DB	7226-PW-3	130	5.1181	230	9.0551	40	1.5748	80	3.1496
.....	7230-DB	7230-PW	150	5.9055	270	10.6299	50	1.7717	90	3.5433

MEDIUM SERIES

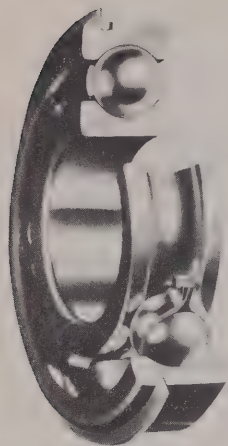
7303	7303-DB		17	0.6693	47	1.8504	14	0.5512	28	1.1024
7304	7304-DB		20	0.7874	52	2.0472	15	0.5906	30	1.1811
7305	7305-DB		25	0.9843	62	2.4409	17	0.6693	34	1.3386
7306	7306-DB		30	1.1811	72	2.8346	19	0.7480	38	1.4961
7307	7307-DB		35	1.3780	80	3.1496	21	0.8268	42	1.6535
7308	7308-DB		40	1.5748	90	3.5433	23	0.9055	46	1.8110
7309	7309-DB		45	1.7717	100	3.9370	25	0.9843	50	1.9685
7310	7310-DB		50	1.9685	110	4.3307	27	1.0630	54	2.1260
.....	7311-DB	7311-PW	55	2.1654	120	4.7244	29	1.1417	58	2.2835
.....	7312-DB	7312-PW	60	2.3622	130	5.1181	31	1.2205	62	2.4409
.....	7313-DB	7313-PW	65	2.5591	140	5.5118	33	1.2992	66	2.5984
.....	7314-DB	7314-PW	70	2.7559	150	5.9055	35	1.3780	70	2.7559
.....	7315-DB	7315-PW	75	2.9528	160	6.2992	37	1.4567	74	2.9134
.....	7316-DB	7316-PW	80	3.1496	170	6.6929	39	1.5354	78	3.0709
.....	7317-DB	7317-PW	85	3.3465	180	7.0866	41	1.6142	82	3.2283
.....	7318-DB	7318-PW	90	3.5433	190	7.4803	43	1.6929	86	3.3858
.....	7319-DB	7319-PW	95	3.7402	200	7.8740	45	1.7717	90	3.5433
.....	7320-DB	7320-PW	100	3.9370	215	8.4646	47	1.8504	94	3.7008
.....	7321-DB	7321-PW	105	4.1339	225	8.8583	49	1.9291	98	3.8583
.....	7322-DB	7322-PW	110	4.3307	240	9.4488	50	1.9685	100	3.9370
.....	7324-DB	7324-PW	120	4.7244	260	10.2362	55	2.1654	110	4.3307
.....	7326-DB	7326-PW	130	5.1181	280	11.0236	58	2.2835	116	4.5669
.....	7328-DB	7328-PW	140	5.5118	300	11.8110	62	2.4409	124	4.8819
.....	7330-DB	7330-PW	150	5.9055	320	12.5984	65	2.5591	130	5.9055

♦Check for availability.

HEAVY SERIES

7405	7405-DB		25	0.9843	80	3.1496	21	0.8268	42	1.6535
7406	7406-DB		30	1.1811	90	3.5433	23	0.9055	46	1.8110
7407	7407-DB		35	1.3780	100	3.9370	25	0.9843	50	1.9685
7408	7408-DB		40	1.5748	110	4.3307	27	1.0630	54	2.1260
7409	7409-DB		45	1.7717	120	4.7244	29	1.1417	58	2.2835
.....	7410-DB	7410-PW	50	1.9685	130	5.1181	31	1.2205	62	2.4409
.....	7411-DB	7411-PW	55	2.1654	140	5.5118	33	1.2992	66	2.5984
.....	7412-DB	7412-PW	60	2.3622	150	5.9055	35	1.3780	70	2.7559
.....	7413-DB	7413-PW	65	2.5591	160	6.2992	37	1.4567	74	2.9134
.....	7414-DB	7414-PW	70	2.7559	180	7.0866	42	1.6536	84	3.3071
.....	7415-DB	7415-PW	75	2.9528	190	7.4803	45	1.7717	90	3.5433
.....	7416-DB	7416-PW	80	3.1496	200	7.8740	48	1.8898	96	3.7795
.....	7418-DB	7418-PW	90	3.5433	225	8.8583	54	2.1260	108	4.2520
.....	7420-DB	7420-PW	100	3.9370	265	10.4331	60	2.3622	120	4.7244

NEED HELP ON BEARINGS—CALL US

FAFNIR BALL BEARINGS**WIRELOC OR SHOULDER (SNAP) RING TYPE**

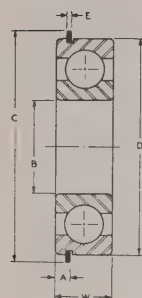
The Wireloc Ball Bearing is a type which entirely eliminates the shoulders formerly required in the housing where it is necessary to provide for taking a certain amount of thrust in both directions. Put into production by The Fafnir Bearing Company after several years of development work, it has been thoroughly investigated and original patents granted on the design.

Simple enough in design, it consists merely of the addition of a wire ring snapped into place in a groove cut on the outside of the bearing outer ring. This wire is placed near one face of the bearing, as shown, and protruding one-eighth of an inch or so furnishes a shoulder integral to the bearing itself—which, abutting against the face of the housing, does away with the need for a shoulder on the opposite side of the bearing.

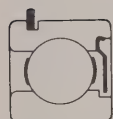
It will be apparent that not only is the housing design greatly simplified, but assembly is facilitated and considerable space saved in the overall length of the application. This latter feature is particularly advantageous in automobile design and in all applications where compactness is essential or where the weight of the bearing housing is a factor. The fact that the housing may be bored straight through from one side is of great assistance in reducing machining costs also.

This bearing is designated by the letter G appearing after the bearing number.

Available with both Conrad and Maximum-type bearings in most cases



G Type



**SNAP RING
AND
SINGLE SHIELD**

DG Type



**SNAP RING
AND
DOUBLE
SHIELD**

DDG Type

BEARING NUMBER			BORE (B)		Out. Dia. (D)		WIDTH (W)		Offset (A) Inches	Overall Dia. (C) Inches	Thickness (E) +.002 To -.002
With Snap Ring	With Snap Ring and Single Shield	With Snap Ring and Double Shield	Mm	Inches	Mm	Inches	Mm	Inches +.000 To -.005			
202G	202-DG	202-DD-G	15	.5906	35	1.3780	11	.4331	.120	1 ³⁵ / ₆₄	.042
203G	203-DG	203-DD-G	17	.6693	40	1.5748	12	.4724	.120	1 ³ / ₄	.042
204G	204-DG	204-DD-G	20	.7874	47	1.8504	14	.5512	.136	2 ¹ / ₁₆	.042
205G	205-DG	205-DD-G	25	.9843	52	2.0472	15	.5906	.136	2 ¹⁷ / ₆₄	.042
206G	206-DG	206-DD-G	30	1.1811	62	2.4409	16	.6299	.190	2 ²¹ / ₃₂	.065
207G	207-DG	207-DD-G	35	1.3780	72	2.8346	17	.6693	.190	3 ⁵ / ₆₄	.065
208G	208-DG	208-DD-G	40	1.5748	80	3.1496	18	.7087	.190	3 ¹³ / ₃₂	.065
209G	209-DG	209-DD-G	45	1.7717	85	3.3465	19	.7480	.190	3 ¹⁹ / ₃₂	.065
210G	210-DG	210-DD-G	50	1.9685	90	3.5433	20	.7874	.220	3 ⁵¹ / ₆₄	.095
211G	211-DG	211-DD-G	55	2.1654	100	3.9370	21	.8268	.220	4 ³ / ₁₆	.095
212G	212-DG	212-DD-G	60	2.3622	110	4.3307	22	.8661	.220	4 ³⁷ / ₆₄	.095
214G	214-DG	214-DD-G	70	2.7559	125	4.9213	24	.9449	.265	5 ¹⁹ / ₆₄	.109
215G	215-DG	215-DD-G	75	2.9528	130	5.1181	25	.9843	.265	5 ¹ / ₂	.109
216G	216-DG	216-DD-G	80	3.1496	140	5.5118	26	1.0236	.297	5 ⁵⁷ / ₆₄	.109
218G	218-DG	218-DD-G	90	3.5433	160	6.2992	30	1.1811	.297	6 ⁴³ / ₆₄	.109
303G	303-DG	303-DD-G	17	.6693	47	1.8504	14	.5512	.136	2 ¹ / ₁₆	.042
304G	304-DG	304-DD-G	20	.7874	52	2.0472	15	.5906	.136	2 ¹⁷ / ₆₄	.042
305G	305-DG	305-DD-G	25	.9843	62	2.4409	17	.6693	.190	2 ²¹ / ₃₂	.065
306G	306-DG	*306-DD-G	30	1.1811	72	2.8346	19	.7480	.190	3 ⁵ / ₆₄	.065
307G	307-DG	*307-DD-G	35	1.3780	80	3.1496	21	.8268	.190	3 ¹³ / ₃₂	.065
308G	308-DG	308-DD-G	40	1.5748	90	3.5433	23	.9055	.220	3 ⁵¹ / ₆₄	.095
309G	309-DG	309-DD-G	45	1.7717	100	3.9370	25	.9843	.220	4 ³ / ₁₆	.095
310G	310-DG	310-DD-G	50	1.9685	110	4.3307	27	1.0630	.220	4 ³⁷ / ₆₄	.095
311G	311-DG	311-DD-G	55	2.1654	120	4.7244	29	1.1417	.265	5 ³ / ₃₂	.109
312G	312-DG	312-DD-G	60	2.3622	130	5.1181	31	1.2205	.265	5 ¹ / ₂	.109
313G	313-DG	313-DD-G	65	2.5591	140	5.5118	33	1.2992	.297	5 ⁵⁷ / ₆₄	.109
316G	316-DG	316-DD-G	80	3.1496	170	6.6929	39	1.5354	.339	7 ³ / ₁₆	.120
322G	322-DG	322-DD-G	110	4.3307	240	9.4488	50	1.9685	.339	9 ⁶¹ / ₆₄	.120
403G	403-DG	403-DD-G	17	.6693	62	2.4409	17	.6693	.190	2 ²¹ / ₃₂	.065
410G	410-DG	410-DD-G	50	1.9685	130	5.1181	31	1.2205	.265	5 ¹ / ₂	.109
412G	412-DG	412-DD-G	60	2.3622	150	5.9055	35	1.3780	.297	6 ⁹ / ₃₂	.109

*Check for Availability.

NEED HELP ON BEARINGS—CALL US

FAFNIR BALL BEARINGS EXTRA-SMALL SINGLE ROW RADIAL

This series has shoulders integral with the bearing for mounting in through-bored housings. They are used where compactness is essential or to avoid machining of housing shoulders in such applications as precision instruments, packaging machinery, motion picture projectors and the like. The last four sizes do not have tapered outside diameters and are interchangeable with corresponding sizes of the extra-small series.

F (FLANGED) SERIES—ABEC-1

Bearing Number*	BORE, INCHES		INNER RING INCHES		Outside Diam. D, in. + .0000 — .0004	OUTER RING INCHES		FLANGE INCHES		Overall Width W, in. ± .001
	B + .0003 — .0000	Chamfer J × 45° + .010 — .000	Project. F ± .005	Shoulder H, Min.		Width C, in. + .000 — .004	Taper Per Foot	Diam. A, in. + .005 — .002	Width E, in. ± .002	
F2	.1875	.010	.016	.273	.4382	.163	.080	.500	.042 ^Δ	.189
F3	.1875	.010	.015	.273	.5632	.195	.080	.625	.042	.218
F4	.2500	.010	.015	.347	.6257	.226	.068	.687	.042	.250
F5	.3125	.010	.015	.410	.6882	.226	.068	.750	.042	.250
F33K3	.1250†	.012	....	.202	.3750	....	....	.440	.030	.1562★
F33K5	.1875†	.012	....	.270	.5000	....	....	.565	.042	.1562★
FS1K7	.2500†	.012	....	.349	.6250	....	....	.690	.042	.1960★
FS3K	.3750†	.016	....	.517	.8750	....	....	.969	.062	.2188★

■ Full type, no retainer. Not recommended for speeds over 500 rpm.

†+.0000—.0003.

Δ+.000—.002.

★+.000—.005.

SHIELDED (REMOVABLE SHIELDS)—ABEC-1

F2DD-2	.1250	.010	.015	.183	.3757	.163	.075	.438	.037	.188
F3DD	.1875	.010	.015	.247	.5632	.226	.068	.625	.042	.250
F4DD	.2500	.010	.015	.320	.6257	.226	.068	.687	.042	.250
F5DD	.3125	.010	.015	.383	.6882	.226	.068	.750	.042	.250
F33KDD3	.1250†	.012	....	.183	.3750	....	....	.4400	.030	.1562
F33KDD5	.1875†	.012	....	.248	.5000	....	....	.5650	.042	.1960
FS1KDD7	.2500†	.012	....	.332	.6250	....	....	.6900	.042	.1960
FS3KDD□	.3750†	.016	....	.475	.8750	....	....	.9690	.062	.2812

□ Also available with two Plya-Seals, FS3PP.

*Available in Class ABEC-3 by adding prefix "M" and in Modified Class ABEC-7 by adding prefix "MV".



Flanged Two Shields

INCH AND METRIC TYPES

BEARING TYPE AND NO.			BORE (B)		O. DIA. (D)		WIDTH (W)			
Stand. No. Un-shielded	With One Shield	With Two Shields	Mm	Inches	Mm	Inches	Std. Brg. Unshielded		With One or Two Shields	
							Mm	Inches	Mm	Inches

"S" AEROLITE INCH TYPE SERIES

33-3	33KD3	33DD3	...	1/8	...	3/8	...	5/32	...	5/32
33-4	33KD4	33DD4	...	1/8	...	1/2	...	11/64	...	.1719
33-5	33KD5	33DD5	...	9/16	...	1/2	...	5/32	5	.1969
S1-K7★	S1D7	S1DD7	...	1/4	...	5/8	...	.196	...	.196
S1	S1D	S1DD	...	1/4	...	3/4	...	7/32	...	9/32
S3★	S3D	S3DD	...	3/8	...	7/8	...	7/32	...	9/32
S5★	S5D	S5DD	...	1/2	...	1 1/8	...	1/4	...	5/16
S7★	S7D	S7DD	...	5/8	...	1 3/8	...	9/32	...	11/32
S8★	S8D	S8DD	...	3/4	...	1 5/8	...	5/16	...	7/16
S10 ^Δ	.....	.....	...	1	...	2	...	3/8	...	.....
S11	.....	.....	...	1 1/8	...	2 1/8	...	3/8	...	.....
S12	.....	.....	...	1 1/4	...	2 1/4	...	3/8	...	.....

30 SERIES METRIC TYPE

34	34D	34DD	4	0.1575	16	0.6299	5	0.1969	5	0.1969
35	35D	35DD	5	0.1969	19	0.7480	6	0.2362	6	0.2362
36	36D	36DD	6	0.2362	19	0.7480	6	0.2362	6	0.2362
37	37D	37DD	7	0.2756	22	0.8661	7	0.2756	7	0.2756
38	38D	38DD	8	0.3150	22	0.8661	7	0.2756	7	0.2756
38V	.....	.....	8	0.3150	24	0.9449	7	0.2756	7	0.2756
39	39D	39DD	9	0.3543	26	1.0236	8	0.3150	8	0.3150

★Also available with two Plya-Seals, S1PP7, S3PP, S5PP, S7PP, S8PP.

ΔAlso available with one Plya-Seal, S10P.

To meet the need for an extra small series of bearings made to inch dimensions rather than metric, the S Type was developed. Its advantage lies in weight saving as well as adaptability to mechanisms designed to accommodate inch dimension bearings with greater facility.

Several sizes are available also in the Full Type construction, which employs no retainer and has a corresponding increase in capacity.

The 30 Series covers sizes below the Standard Single Row Metric Range. Made in the "K" non-filling slot construction, these bearings are for small shafts and light loads.

FAFNIR BALL BEARINGS SINGLE ROW FELT-SEAL BEARINGS

Types T, TD, TT and VT



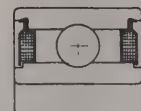
T Type



TD Type

The Non-Filling slot (K) construction is used in all T and TT Type designs. Overall widths are greater, but bore and outside diameter are of standard Single Row Radial dimensions in corresponding sizes, and load capacities are equivalent to K Type Single Row Bearings.

In single seal design the inner ring is offset slightly to permit clearance when the bearing is mounted in a blind hole.



TT Type

Single Seal Bearing No. (T)	Combined Seal and Shield Bearing No. (TD)	Double Seal Bearing No. (TT)	BORE		OUTSIDE DIA.		WIDTH OUTER RACES		Width Inner Rings (T & TD)	Width Inner (TT)
			Mm	Inches	Mm	Inches	(T & TD)	(TT)		
36T	.....	36TT	6	.2362	19	.7480	.406	.562	.386	.562
37T	.....	37TT	7	.2756	22	.8661	.406	.562	.386	.562
38T	.....	38TT	8	.3150	22	.8661	.406	.562	.386	.562
.....	.....	39TT	9	.3543	26	1.0236	.453	.562	.437	.562
36VT	36VTD	.....	6	.2362	24	.9449	.406	....	.386	....
37VT	37VTD	.....	7	.2756	24	.9449	.406	....	.386	....
38VT	38VTD	38VTT	8	.3150	24	.9449	.406	.562	.386	.562
39VT	39VTD	.....	9	.3543	30	1.1811	.500	....	.480	....
200T	200TD	200TT	10	.3937	30	1.1811	.500	.656	.480	.656
201T	201TD	201TT	12	.4724	32	1.2598	.500	.656	.480	.656
201T-2	201TD-2	201TT-3	13	.5118	32	1.2598	.500	.656	.480	.656
202T	202TD	202TT	15	.5906	35	1.3780	.500	.656	.480	.656
202T-3	202TD-3	.....	16	.6299	35	1.3780	.500	....	.484	....
203T	203TD	203TT	17	.6693	40	1.5748	.563	.718	.538	.718
204T	204TD	204TT	20	.7874	47	1.8504	.625	.813	.600	.813
205T	205TD	205TT	25	.9843	52	2.0472	.625	.813	.600	.813
206T	206TD	206TT	30	1.1811	62	2.4409	.787	.945	.748	.945
207T	.....	207TT	35	1.3780	72	2.8346	.827	.984	.787	.984
.....	.....	207TT-2	35	1.3780	72	2.8346	....	.6693	....	.6693

NARROW SERIES (Metric and Inch)

METRIC TYPE

Bearing No.	BORE (B)		OUTSIDE DIA. (D)		WIDTH (W)	
	Mm	Inches	Mm	Inches	Mm	Inches
102A	10	.3937	32	1.2598	9	.3543
1H	12	.4724	37	1.4567	9	.3543
103K	15	.5906	37	1.4567	9	.3543
3A	20	.7874	52	2.0472	10	.3937
4CH	20	.7874	42	1.6535	10	.3937
104K	20	.7874	42	1.6535	9	.3543
5C	25	.9843	52	2.0472	12	.4724
**105K	25	.9843	52	2.0472	9	.3543
106K	30	1.1811	62	2.4409	10	.3937
7C	35	1.3780	70	2.7559	14	.5512
107A	35	1.3780	70	2.7559	10	.3937
●107GE2	45	1.7717	..	2.8125	..	.3750
108W	40	1.5748	80	3.1496	11	.4331
●109A	45	1.7717	85	3.3465	15	.5906
110A	50	1.9685	90	3.5433	11	.4331
●111GE	..	2.2500	..	2.9370	..	.3125
111W	55	2.1654	100	3.9370	12	.4724
*112AFT	60	2.3622	105	4.1339	12	.4724
**114ART	70	2.7559	120	4.7244	14	.5512
115A	75	2.9528	130	5.1181	16	.6299
116W	80	3.1496	135	5.3150	16	.6299
117K	85	3.3465	145	5.7087	18	.7087

*Full Type—No retainer.

**Also made as full type (114AFT) (105AFT)

●Check for Availability.

B500 TORQUE TUBE INCH TYPE ☐

B538	..	.6250	...	1.0625	..	.281*
B539	..	.7500	...	1.1875	..	.281*
B540	..	.8750	...	1.3125	..	.281*
B541	..	1.0625	...	1.500	..	.281*
B542	..	1.3125	...	1.750	..	.281*
B543	..	1.5625	...	2.000	..	.281*
B544	..	1.8125	...	2.250	..	.281*
B545	..	2.0625	...	2.625	..	.281*
B546	..	2.3125	...	2.8750	..	.281*

*Refers to inner width. Outer ring width all sizes 1/4".

☐ This Series Available with Two Shields (B-538DD, etc.)

METRIC TYPE

These bearings are available in many of the same bore sizes as the standard Single Row Radial Type, but are considerably narrower. They require careful fitting on shafts and in housings due to the decreased contact area between rings and other mating parts. Should be used only where width limitation is a controlling factor.

B-500 TORQUE SERIES (Inch)

Bearings of this type fill a long-felt need for certain special applications where a very narrow width bearing is required with an outside diameter only slightly larger than the bore. This design—the B500 Series—is of great weight-saving value in applications where loads are moderate, speeds low, and the principal requirement the elimination of friction, as in torque tubes from whence the name is derived.

FAFNIR BALL BEARINGS PLYA-SEAL REMOVABLE SEAL BEARINGS

P and PP Types

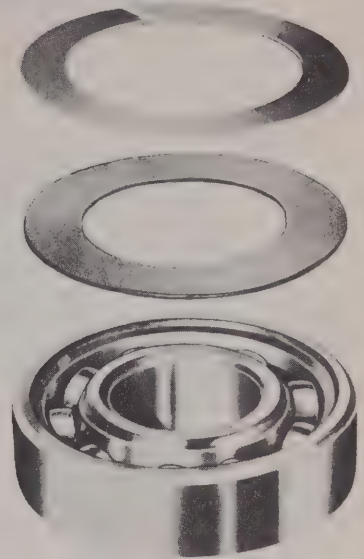


P Type

PP Type

**MAXIMUM
SEAL EFFICIENCY**

Assures maximum retention of initial lubricant as well as maximum exclusion of dirt and liquids from the bearings.



REMOVABLE

The Plya-Seal can be easily removed and replaced to allow inspection, washing, and re-greasing of the bearing—a feature which makes it possible to use Plya-Seal bearings in countless applications where heretofore a pre-lubricated and sealed bearing could not be used.

LONG LIVED

The synthetic rubber sealing washers do not deteriorate with age. Synthetic rubber material is non-capillary and impervious to water, oil, gasoline, grease, etc. It also resists heat above the recommended limits for the use of a grease lubricated bearing (175°F.) and is unaffected by sub-zero temperatures.

BEARING NUMBER		BORE (B)		OUTSIDE DIAMETER (D)		WIDTH (W)	
SINGLE SEAL	DOUBLE SEAL	MM	Inches	MM	Inches	MM	Inches
34P	34PP	4	.1575	16	.6299	10	.3937
36P	36PP	6	.2362	19	.7480	10	.3937
37P	37PP	7	.2756	22	.8661	10	.3937
38P	38PP	8	.3150	22	.8661	10	.3937
39NP*	39NPP*	9	.3543	26	1.0236	8	.3150
	S3PP		.3750		.8750		.2812
	S5PP		.5000		1.1250		.3125
	S7PP		.6250		1.3750		.3438
S10P			1.0000		2.0000	12	.4724
9100NP*	9100NPP*	10	.3937	26	1.0236	8	.3150
9101NP*	9101NPP*	12	.4724	28	1.1024	8	.3150
9102P	9102PP	15	.5906	32	1.2598	9	.3543
9103P	9103PP	17	.6693	35	1.3780	10	.3937
9104P	9104PP	20	.7874	42	1.6535	12	.4724
9105P	9105PP	25	.9843	47	1.8504	12	.4724
9106P	9106PP	30	1.1811	55	2.1654	13	.5118
9107P	9107PP	35	1.3780	62	2.4409	14	.5512
9108P	9108PP	40	1.5748	68	2.6772	15	.5906
9109P	9109PP	45	1.7717	75	2.9528	16	.6299
9110P	9110PP	50	1.9685	80	3.1496	16	.6299
9111P	9111PP	55	2.1654	90	3.5433	18	.7087
9112P	9112PP	60	2.3622	95	3.7402	18	.7087
9113P	9113PP	65	2.5591	100	3.9370	18	.7087
9114P	9114PP	70	2.7559	110	4.3307	20	.7874
	9120NPP*	100	3.9370	150	5.9055	24	.9449
9506P	9506PP	30	1.1811	52	2.0472	13	.5118
200P★	200PP	10	.3937	30	1.1811	9	.3543
201P★	201PP	12	.4724	32	1.2598	10	.3937
202P★	202PP	15	.5906	35	1.3780	11	.4331
203P★	203PP	17	.6693	40	1.5748	12	.4724
204P	204PP	20	.7874	47	1.8504	14	.5512
205P★	205PP	25	.9843	52	2.0472	15	.5906
206P★	206PP	30	1.1811	62	2.4409	16	.6299
207NP*★	207NPP*	35	1.3780	72	2.8346	17	.6693
208NP*	208NPP*	40	1.5748	80	3.1496	18	.7087
209NP*	209NPP*	45	1.7717	85	3.3465	19	.7480
210P	210PP	50	1.9685	90	3.5433	20	.7874
	212NPP*	60	2.3622	110	4.3307	22	.8661
213WNP*†	213NPP*	65	2.5591	120	4.7244	23	.9055
215WNP*†		75	2.9528	130	5.1181	25	.9843
300P		10	.3937	35	1.3780	11	.4331
		17	.6693	47	1.8504	14	.5512
304NP*	304NPP*	20	.7874	52	2.0472	15	.5906
305NP*	305NPP*	25	.9843	62	2.4409	17	.6693
306NP*	306NPP*	30	1.1811	72	2.8346	19	.7480
307NP*	307NPP*	35	1.3780	80	3.1496	21	.8268
308NP*	308NPP*	40	1.5748	90	3.5433	23	.9055
310NP*		50	1.9685	110	4.3307	27	1.0630

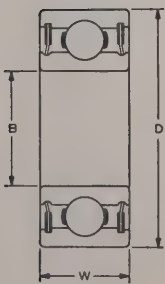
*Non-removable seals.

†Maximum Type.

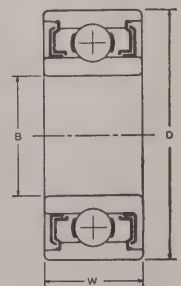
★Also available with single Plya-Seal and single shield. Example: 201PD, 207NPD.

WIDE TYPE

BEARING NUMBER		BORE (B)		OUTSIDE DIA. (D)		WIDTH (W)	
Plya-Seals	Mechani-Seals	Mm	Inches	Mm	Inches	Mm	Inches
W200PP	.....	10	.3937	30	1.1811	..	.5625
W201PP	.....	12	.4724	32	1.2598	..	.6250
W202PP	.....	15	.5906	35	1.3780	..	.6250
W203PP	.....	17	.6693	40	1.5748	..	.6875
W204PP	W204KLL	20	.7874	47	1.8504	..	.8125
W205PP	W205KLL	25	.9843	52	2.0472	..	.8125
W206PP	W206KLL	30	1.1811	62	2.4409	..	.9375
W207PP	W207KLL	35	1.3780	72	2.8346	..	1.0625
W208PP	W208KLL	40	1.5748	80	3.1496	..	1.1875
W209PP	W209KLL	45	1.7717	85	3.3465	..	1.1875
W210PP	.....	50	1.9685	90	3.5433	..	1.1875
W214PP	.....	70	2.7559	125	4.9213	..	1.5625
W304PP	.....	20	.7874	52	2.0472	..	.8750
W305PP	.....	25	.9843	62	2.4409	..	1.0000
W306PP	.....	30	1.1811	72	2.8346	..	1.1875
W307PP	W307KLL	35	1.3780	80	3.1496	..	1.3750
W308PP	W308KLL	40	1.5748	90	3.5433	..	1.4375
W309PP	W309KLL	45	1.7717	100	3.9370	..	1.5625
W310PP	.....	50	1.9685	110	4.3307	..	1.7500
W311PP	W311KLL	55	2.1654	120	4.7244	..	1.9375
W312PP	W312KLL	60	2.3622	130	5.1181	..	2.1250
W313PP	.....	65	2.5591	140	5.5118	..	2.3125
W314PP	.....	70	2.7559	150	5.9055	..	2.5000
W315PP	.....	75	2.9528	160	6.2992	..	2.6875



Plya-Seal

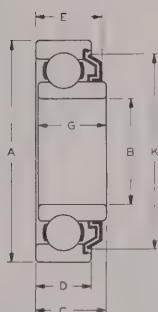


Mechani-Seal

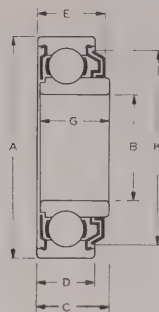
NEED HELP ON BEARINGS—CALL US

FAFNIR BALL BEARINGS

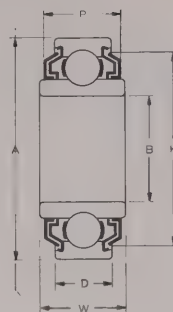
SINGLE ROW MECHANI-SEAL BEARINGS



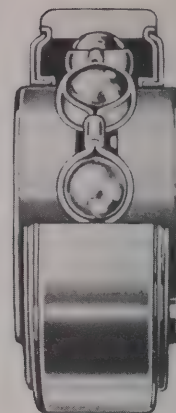
L TYPE
(Single Seal)



LD TYPE
(Seal & Shield)



LL TYPE
(Double Seal)



The Mechani-Seal was developed to provide a frictionless seal for effective grease retention and exclusion of foreign matter. It is made up of two "dished" steel plates. The inner member is fixed securely in the outer ring of the bearing and provides an ample grease chamber plus effective grease retention. The outer member is pressed on the outside diameter of

the inner ring so that there is close running clearance between the two seal members. This rotates with the inner ring and acts as a slinger to throw off dust and dirt.

Because this seal is frictionless, the bearings can be operated at speeds comparable to those at which the open type and shielded bearings can operate.

L AND LD TYPES

BEARING NO.		BORE (B)		OUTSIDE DIA. (A)		Overall Width (C)	WIDTH OF RINGS		SEAL PROJECTION		BEARING NO.	
Single Seal	Seal and Shield	Mm	Inches	Mm	Inches		INNER (G)	OUTER (D)	Width (E)	O.D. (K)	Single Seal	Seal and Shield
36L	36LD	6	.2362	19	.7480	.406	.386	8 .3150	.372	$\frac{21}{64}$	36L	36LD
36VL	36VLD	6	.2362	24	.9449	.406	.386	8 .3150	.377	$\frac{3}{4}$	36VL	36VLD
37L	37LD	7	.2756	22	.8661	.406	.386	8 .3150	.378	$\frac{47}{64}$	37L	37LD
37VL	37VLD	7	.2756	24	.9449	.406	.386	8 .3150	.377	$\frac{3}{4}$	37VL	37VLD
38L	38LD	8	.3150	22	.8661	.406	.386	8 .3150	.378	$\frac{47}{64}$	38L	38LD
38VL	38VLD	8	.3150	24	.9449	.406	.386	8 .3150	.377	$\frac{3}{4}$	38VL	38VLD
39L-2	39LD-2	9	.3543	26	1.0236	.406	.386	8 .3150	.378	$\frac{27}{64}$	39L-2	39LD-2
200L	200LD	10	.3937	30	1.1811	.500	.480	9 .3543	.481	1	200L	200LD
201L	201LD	12	.4724	32	1.2598	.500	.480	10 .3937	.480	$\frac{11}{16}$	201L	201LD
201L-2	201LD-2	13	.5118	32	1.2598	.500	.480	10 .3937	.480	$\frac{11}{16}$	201L-2	201LD-2
202L	202LD	15	.5906	35	1.3780	.500	.480	11 .4331	.487	$\frac{13}{16}$	202L	202LD
202L-4	202LD-4	14	.5512	35	1.3780	.500	.480	11 .4331	.487	$\frac{13}{16}$	202L-4	202LD-4
202L-3	202LD-3	16	.6299	35	1.3780	.500	.480	11 .4331	.487	$\frac{13}{16}$	202L-3	202LD-3
203L	203LD	17	.6693	40	1.5748	.563	.538	12 .4724	.551	$\frac{13}{8}$	203L	203LD
204L	204LD	20	.7874	47	1.8504	.625	.600	14 .5512	.613	$\frac{13}{8}$	204L	204LD
205L	205LD	25	.9843	52	2.0472	.625	.600	15 .5906	.613	$\frac{13}{8}$	205L	205LD
206L	206LD	30	1.1811	62	2.4409	.7874	.7480	16 .6299	.767	$\frac{27}{64}$	206L	206LD
207L	207LD	35	1.3780	72	2.8346	.8268	.7874	17 .6693	.807	$\frac{21}{32}$	207L	207LD
209L	209LD	45	1.7717	85	3.3465	1.0236	1.0236	19 .7480	.954	$\frac{21}{32}$	209L	209LD
211L	211LD	55	2.1654	100	3.9370	1.0630	1.0630	21 .8268	1.050	$\frac{3}{2}$	211L	211LD

LL TYPE

BEARING NO.		BORE (B)		OUTSIDE DIA. (A)		Overall Width (W)	WIDTH OF RINGS		SEAL PROJECTION		BEARING NO.
Double Seal		Mm	Inches	Mm	Inches		OUTER (D)		Width (P)	O.D. (K)	Double Seal
36LL		6	.2362	19	.7480	.562	8	.315	.428	$\frac{21}{64}$	36LL
37LL		7	.2756	22	.8661	.406	8	.315	.440	$\frac{47}{64}$	37LL
38LL		8	.3150	22	.8661	.562	8	.315	.440	$\frac{47}{64}$	38LL
38VLL		8	.3150	24	.9449	.562	8	.315	.438	$\frac{3}{4}$	38VLL
38LL-2		8	.3150	22	.8661	.497	8	.315	.440	$\frac{47}{64}$	38LL-2
38VLL-2		8	.3150	24	.9449	.497	8	.315	.438	$\frac{3}{4}$	38VLL-2
39VLL-2		9	.3543	30	1.1811	.6457	9	.3543	.629	1	39VLL-2
200LL-2		10	.3937	30	1.1811	.6457	9	.3543	.613	1	200LL-2
201LL		12	.4724	32	1.2598	.6560	10	.3937	.567	$\frac{11}{16}$	201LL
201LL-2		12	.4724	32	1.2598	.6063	10	.3937	.567	$\frac{11}{16}$	201LL-2
201LL-3		13	.5118	32	1.2598	.6063	10	.3937	.567	$\frac{11}{16}$	201LL-3
202LL-2		15	.5906	35	1.3780	.5669	11	.4331	.543	$\frac{13}{16}$	202LL-2
202LL-3		16	.6299	35	1.3780	.5669	11	.4331	.543	$\frac{13}{16}$	202LL-3
203LL		17	.6693	40	1.5748	.7180	12	.4724	.630	$\frac{13}{8}$	203LL
203LL-2		17	.6693	40	1.5748	.6536	12	.4724	.630	$\frac{13}{8}$	203LL-2
204LL-2		20	.7874	47	1.8504	.6988	14	.5512	.675	$\frac{13}{8}$	204LL-2
205LL		25	.9843	52	2.0472	.8125	15	.5906	.635	$\frac{13}{8}$	205LL
205KLL-2		25	.9843	52	2.0472	.6594	15	.5906	.635	$\frac{13}{8}$	205KLL-2
206LL		30	1.1811	62	2.4409	.9449	16	.6299	.905	$\frac{27}{64}$	206LL
207LL		35	1.3780	72	2.8346	.9843	17	.6693	.944	$\frac{21}{32}$	207LL
208LL		40	1.5748	80	3.1496	1.1811	18	.7087	1.127	$\frac{23}{32}$	208LL
209LL		45	1.7717	85	3.3465	1.1811	19	.7480	1.160	$\frac{23}{32}$	209LL

NEED HELP ON BEARINGS—CALL US

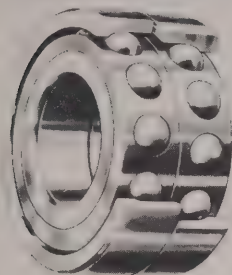
FAFNIR BALL BEARINGS

FOR HIGH SPEED INTERNAL GRINDING SPINDLES

ABEC-7 PRECISION

Greater Spindle Rigidity

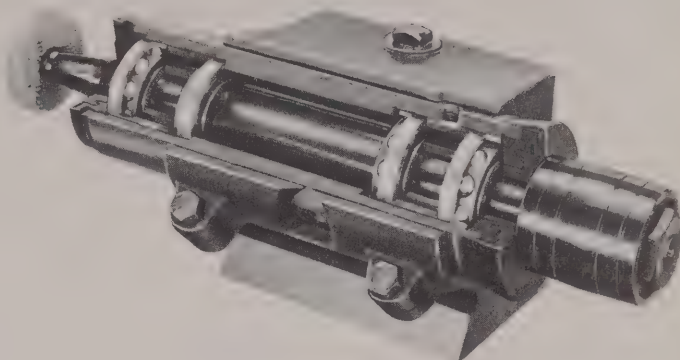
Faster Production



FOR
EXTREMELY
HIGH SPEEDS

EXTREMELY
ACCURATE
WORK

LONGER
BEARING
LIFE



"DB"

(BACK TO BACK)



"DT"

(TANDEM)



"DF"

(FACE TO FACE)



Fafnir 2MM-DUL Series are super precision duplex bearings for high speed internal grinding spindles of specific designs operating at speeds over 5,000 RPM and up to 50,000 RPM. This specialized series of three-way duplex bearings may be mounted DB, DF, or DT and duplexed in the usual clamped-up manner or spring loaded as desired. They are

held to ABEC-7 tolerances, and supplied with one piece composition ball retainers for lightness and balance at high speeds.

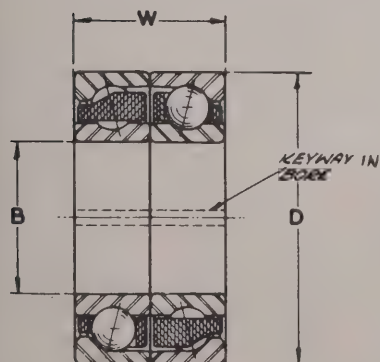
Internal clearances and built-in preloads are those best suited for high speed grinding spindle service to produce extremely accurate work for many hours of continuous operation.

Bearing No.	BORE			OUTSIDE DIAMETER			WIDTH SINGLE BRG.		BALLS		Spindle Speed
	Mm	Inches	Tolerance +.0000 to Minus	Mm	Inches	Tolerance +.0000 to Minus	Mm	Inches +.000 - .002	No.	Size	
2MM301WI-DUL	12	.4724	.00015	37	1.4567	.0002	12	.4724	7	$\frac{5}{16}$	42,000
2MM202WI-DUL	15	.5906	.00015	35	1.3780	.0002	11	.4331	8	$\frac{3}{4}$	42,000
2MM203WI-DUL	17	.6693	.00015	40	1.5748	.0002	12	.4724	8	$\frac{5}{16}$	35,000
2MM204WI-DUL	20	.7874	.00015	47	1.8504	.0002	14	.5512	9	$\frac{1}{2}$	28,000
2MM205WI-DUL	25	.9843	.00015	52	2.0472	.0002	15	.5906	10	$\frac{11}{32}$	24,000
2MM206WI-DUL	30	1.1811	.00020	62	2.4409	.0002	16	.6299	10	$\frac{13}{32}$	18,000
2MM207WI-DUL	35	1.3780	.00020	72	2.8346	.0002	17	.6693	11	$\frac{15}{32}$	15,000
2MM208WI-DUL	40	1.5748	.00020	80	3.1496	.0002	18	.7087	10	$\frac{1}{2}$	13,000
2MM209WI-DUL	45	1.7717	.00020	85	3.3465	.0002	19	.7480	13	$\frac{3}{2}$	11,000

Add suffix FS-217 for ABEC-9 Heald specification.

FAFNIR INCH DIMENSION EXTREME-PRECISION SPINDLE BEARINGS

For Ex-cel-lo and Parker Replacements



Bearing No.	BORE (B)	O.D. (D)	WIDTH (W)	OPERATING SPEEDS
	-.0000 +.0002	-.0000 +.0002	+.000 -.002	
MM20EX	$\frac{3}{8}$	$1\frac{1}{8}$	$\frac{11}{16}$	For successful Spindle operation always specify OPERATING SPEED. Different operating speeds require different bearing preloads. High speed — low preload. Low speed — high preload. Various degrees of preload are supplied in each size.
MM30EX	$\frac{5}{8}$	$1\frac{1}{2}$	1	
MM50EX	$\frac{15}{16}$	2	1	
MM57EX	$1\frac{1}{16}$	$2\frac{3}{4}$	1	
MM67EX	$1\frac{1}{4}$	$2\frac{7}{16}$	$1\frac{1}{4}$	
MM90EX*	$1\frac{5}{8}$	$3\frac{1}{16}$	$1\frac{5}{8}$	
MM92EX	$1\frac{3}{4}$	$3\frac{7}{16}$	$1\frac{5}{8}$	
MM115EX	$2\frac{1}{4}$	$4\frac{3}{4}$	$2\frac{1}{4}$	
MM135EX	$1\frac{1}{2}$	$2\frac{11}{16}$	$1\frac{1}{4}$	
MM155EX**	$2\frac{3}{4}$	$4\frac{3}{4}$	$2\frac{1}{4}$	
MM165EX	$3\frac{1}{2}$	$6\frac{1}{16}$	3	

*Also replaces Excello 95 and 145

**Also replaces Excello 120

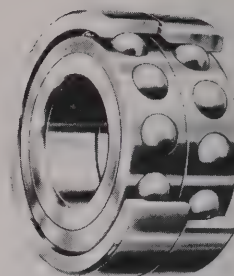
NEED HELP ON BEARINGS—CALL US

FAFNIR BALL BEARINGS

EXTRA-PRECISION TYPE

Every ball bearing manufactured by The Fafnir Bearing Company is made to close tolerances. The standard tolerances established by the Annular Bearing Engineers Committee are adhered to, and even the most liberal classification, ABEC-1, assures a product of precision nature.

However, for applications involving high speeds, extreme accuracy and rigidity in such equipment as high-grade machine tools, woodworking machines, super chargers, jet engines, and sensitive precision instruments, Fafnir manufactures a complete line of special-precision ball bearings made to ABEC-3 tolerances, super-precision ball bearings made to ABEC-7 tolerances and ultra-precision ball bearings made to ABEC-9 tolerances.



SELECTION FOR TYPES AND PRECISION CLASSIFICATION

SPECIAL-PRECISION M (ABEC-3)

Special-precision bearings of the K or non-filling slot construction are widely used on woodworking machinery, precision gear boxes and the like where accuracy, high speed operation, shaft rigidity and ability to take combined loads are required.

SUPER-PRECISION MM (ABEC-7)

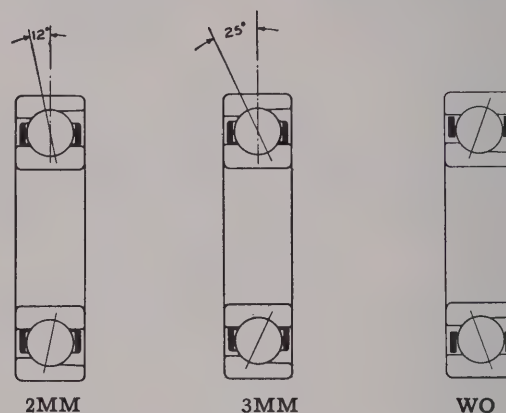
Super-precision bearings of the K or non-filling slot construction are generally used on woodworking spindles, aircraft accessory units and machine tool applications where duplex bearings are not a definite requirement. By virtue of the single row radial deep groove construction and super-precision tolerances, they are capable of carrying thrust loads in either direction and have relatively high speed ability.

More popular on precision machine tool spindle applications are the WI counterbore type bearing variations, namely 2MM-WI and 3MM-WI.

ULTRA-PRECISION FS-130 (ABEC-9)

Ultra-precision bearings with closer tolerances and running accuracies than ABEC-7 bearings are made to ABEC-9 tolerances. Bearings conforming to this classification are identified by specification FS-130 as a suffix to the Fafnir ABEC-7 bearing number.

VARIATIONS IN INTERNAL CONSTRUCTION



2M-WI and 2MM-WI types with 12° initial contact angle are designed to meet the needs of machine builders for precision bearings which will operate at as low a temperature as possible for a wide range of speeds and operating loads. In order for machines to produce more accurate work at a higher production rate, the bearings must provide a high degree of rigidity in both axial and radial directions while operating at minimum temperatures.

3M-WI and 3MM-WI types, manufactured with a 25° contact angle, are designed primarily for use on applications where the loading on the bearings is predominantly thrust—and a high degree of axial rigidity is a definite requirement.

2MM-WO types with 18° initial contact angle are designed for extremely high-speed applications where centrifugal force of the balls is the principal load on the bearing.

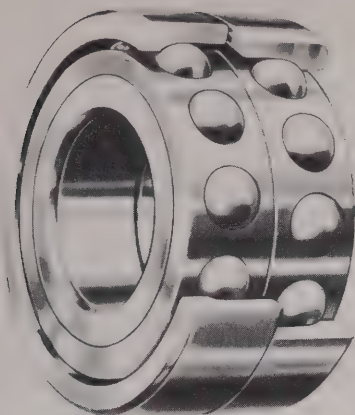
MEANINGS OF PREFIXES AND SUFFIXES

PREFIXES

- M** • special-precision • ABEC-3 tolerances
- 2M** • special-precision • ABEC-3 • low contact angle
- 3M** • special-precision • ABEC-3 • high contact angle
- MM** • super-precision • ABEC-7 tolerances
- 2MM** • super-precision • ABEC-7 • low contact angle
- 3MM** • super-precision • ABEC-7 • high contact angle

SUFFIXES

- K** • non-filling slot type
- WI** • maximum capacity counterbore type
- WO** • extra-high-speed type
- CR** • composition retainer (non-metallic)
- MBR** • machined bronze retainer
- SMBR** • machined silicon-iron-bronze retainer
- DUL** • flush-ground to Light preload
- DUM** • flush-ground to Medium preload
- DUH** • flush-ground to Heavy preload
- FS-130** • ultra-precision • ABEC-9 tolerances



FAFNIR BALL BEARINGS

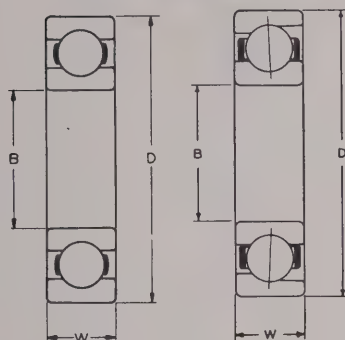
SUPER PRECISION ABEC-7

For applications requiring high speeds, extreme accuracy and rigidity, in such equipment as high grade machine tools, woodworking machines, superchargers, jet engines, sensitive precision instruments, etc.

Basically of the single row radial construction with ABEC-7 tolerances and running accuracies.

MM-K Non-Filling Slot Type are for use as single independent radial bearings where a preloaded bearing is not required.

MM-WI Counterbore Type bearings are flush-ground for mounting in any of the three arrangements and are specified by the suffix DU (duplex universal) to the bearing number. An additional suffix of L, M or H denotes Light, Medium or Heavy preloads.



MM-K

MM-WI



"DB"

(BACK TO BACK)



"DT"

(TANDEM)

"DF"

(FACE TO FACE)

Any MM-WI-DU single bearing can be mounted with another to form a duplex bearing, with either DF, DB or DT arrangement.

EXTRA-SMALL SERIES

BEARING NUMBER	BORE (B)		OUTSIDE DIA. (D)		WIDTH (W)	
	Mm	Inches	Mm	Inches	Mm	Inches
MM36WI-CR	6	.2362	19	.7480	6	.2362
MM38WI-CR	8	.3150	22	.8661	7	.2756
MMS5K	..	.5000	..	1.1250	..	.2500
MMS7K	..	.6250	..	1.3750	..	.2813
MMS8K	..	.7500	..	1.6250	..	.3125

BEARING NUMBER		BORE (B)		OUTSIDE DIA. (D)		WIDTH (W)	
NON-FILLING SLOT TYPE	COUNTERBORE TYPE	Mm	Inches	Mm	Inches	Mm	Inches
.....	2MM200WI-CR	10	.3937	30	1.1811	9	.3543
.....	2MM201WI-CR	12	.4724	32	1.2598	10	.3937
ΔMM202K-CR	2MM202WI-CR	15	.5906	35	1.3780	11	.4331
ΔMM203K-CR	2MM203WI-CR	17	.6693	40	1.5748	12	.4724
ΔMM204K-CR	2MM204WI-CR	20	.7874	47	1.8504	14	.5512
ΔMM205K-CR	2MM205WI-CR	25	.9843	52	2.0472	15	.5906
ΔMM206K-CR	2MM206WI-CR	30	1.1811	62	2.4409	16	.6299
ΔMM207K-CR	2MM207WI-CR	35	1.3780	72	2.8346	17	.6693
ΔMM208K-CR	2MM208WI-CR	40	1.5748	80	3.1496	18	.7087
ΔMM209K-CR	2MM209WI-CR	45	1.7717	85	3.3465	19	.7480
ΔMM210K-CR	2MM210WI-CR	50	1.9685	90	3.5433	20	.7874
ΔMM211K-CR	2MM211WI-CR	55	2.1654	100	3.9370	21	.8268
ΔMM212K-CR	2MM212WI-CR	60	2.3622	110	4.3307	22	.8661
ΔMM213K-CR	2MM213WI-CR	65	2.5591	120	4.7244	23	.9055
ΔMM214K-CR	2MM214WI-CR	70	2.7559	125	4.9213	24	.9449
ΔMM215K-MBR	2MM215WI-CR	75	2.9528	130	5.1181	25	.9843
MM216K-CR	2MM216WI-CR	80	3.1496	140	5.5118	26	1.0236
.....	2MM217WI-CR	85	3.3465	150	5.9055	28	1.1024
.....	2MM218WI-CR	90	3.5433	160	6.2992	30	1.1811
.....	2MM219WI-CR	95	3.7402	170	6.6929	32	1.2598
.....	2MM220WI-CR	100	3.9370	180	7.0866	34	1.3386
.....	2MM222WI-CR	110	4.3307	200	7.8740	38	1.4961
.....	2MM224WI3-CR	120	4.7244	215	8.4646	40	1.5748
.....	2MM226WI3-MBR	130	5.1181	230	9.0551	40	1.5748
.....	2MM230WI-MBR	150	5.9055	270	10.6299	45	1.7717
.....	2MM301WI-CR	12	.4724	37	1.4567	12	.4724
.....	2MM302WI-CR	15	.5706	42	1.6535	13	.5118
.....	2MM303WI-CR	17	.6693	47	1.8504	14	.5512
.....	2MM304WI-CR	20	.7874	52	2.0472	15	.5906
MM305K-CR	2MM305WI-CR	25	.9843	62	2.4409	17	.6693
MM306K-CR	2MM306WI-CR	30	1.1811	72	2.8346	19	.7480
MM307K-CR	2MM307WI-CR	35	1.3780	80	3.1496	21	.8268
MM308K-CR	2MM308WI-CR	40	1.5748	90	3.5433	23	.9055
MM309K-CR	2MM309WI-CR	45	1.7717	100	3.9370	25	.9843
MM310K-CR	2MM310WI-CR	50	1.9685	110	4.3307	27	1.0630
MM311K-CR	2MM311WI-CR	55	2.1654	120	4.7244	29	1.1417
MM312K-CR	2MM312WI-CR	60	2.3622	130	5.1181	31	1.2205
MM313K-CR	2MM313WI-CR	65	2.5591	140	5.5118	33	1.2992
MM314K-CR	2MM314WI-CR	70	2.7559	150	5.9055	35	1.3780
.....	2MM319WI-CR	95	3.7402	200	7.8740	45	1.7717

*Also available with steel retainer.

□Also available with bronze retainer.

9500 SERIES—EXTRA LIGHT

(Not AFBMA Standard)

BEARING NUMBER	BORE (B)		OUTSIDE DIA. (D)		WIDTH (W)	
	Mm	Inches	Mm	Inches	Mm	Inches
2MM9504WI-CR	20	.7874	40	1.5748	11	.4331
2MM9506WI-CR	30	1.1811	52	2.0472	13	.5118
2MM9508WI-CR	40	1.5748	72	2.8346	16	.6299
2MM9509WI-CR	45	1.7717	80	3.1496	18	.7087
2MM9510WI-CR	50	1.9685	85	3.3465	19	.7480
2MM9511WI-CR	55	2.1654	90	3.5433	20	.7874
2MM9512WI-CR	60	2.3622	100	3.9370	21	.8268
2MM9513WI-CR	65	2.5591	105	4.1339	22	.8661
*2MM9514WI-CR	70	2.7559	110	4.3307	23	.9055
2MM9515WI-CR	75	2.9528	120	4.7244	23	.9055
2MM9516WI-CR	80	3.1496	125	4.9213	24	.9449
2MM9517WI-CR	85	3.3465	130	5.1181	24	.9449
2MM9518WI-CR	90	3.5433	140	5.5118	26	1.0236
2MM9520WI-CR	100	3.9370	160	6.2992	28	1.1024
*2MM9521WI-CR	105	4.1339	160	6.2992	28	1.1024

*Also made with 115 Mm O.D. *Check for availability.

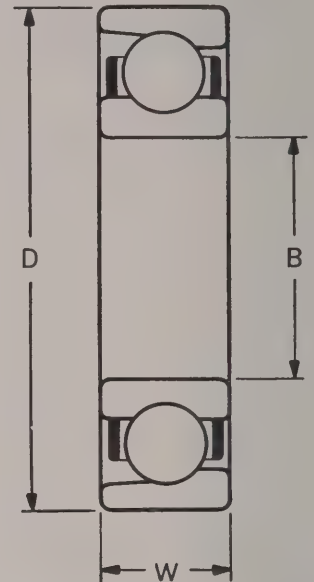
FAFNIR BALL BEARINGS
SUPER PRECISION TYPE
ABEC-7

9100 SERIES—EXTRA-LIGHT

BEARING NUMBER			BORE (B)		OUTSIDE DIA. (D)		WIDTH (W)	
Non-slot type	Counter-bore type	High-speed type	Mm	Inches	Mm	Inches	Mm	Inches
.....	.....	2MM9100WO-CR	8	.3150	22	.8661	7	.2756
MM9100K-CR [△]	2MM9100WI-CR	2MM9100WO-CR	10	.3937	26	1.0236	8	.3150
MM9101K-CR [□]	2MM9101WI-CR	2MM9101WO-CR	12	.4724	28	1.1024	8	.3150
.....	.....	2MM9102WO-CR	15	.5906	32	1.2598	9	.3543
MM9103K-MBR	2MM9103WI-CR	2MM9103WO-CR	17	.6693	35	1.3780	10	.3937
MM9104K-CR [□]	2MM9104WI-CR	2MM9104WO-CR	20	.7874	42	1.6535	12	.4724
MM9105K-CR [□]	2MM9105WI-CR	2MM9105WO-CR	25	.9843	47	1.8504	12	.4724
MM9106K-CR [□]	2MM9106WI-CR	2MM9106WO-CR	30	1.1811	55	2.1654	13	.5118
MM9107K-CR [□]	2MM9107WI-CR	2MM9107WO-CR	35	1.3780	62	2.4409	14	.5512
MM9108K-CR [△]	2MM9108WI-CR	2MM9108WO-CR	40	1.5748	68	2.6772	15	.5906
MM9109K-CR [△]	2MM9109WI-CR	.....	45	1.7717	75	2.9528	16	.6299
MM9110K-CR [□]	2MM9110WI-CR	2MM9110WO-CR	50	1.9685	80	3.1496	16	.6299
MM9111K-CR [△]	2MM9111WI-CR	.....	55	2.1654	90	3.5433	18	.7087
MM9112K-CR [□]	2MM9112WI-CR	.....	60	2.3622	95	3.7402	18	.7087
MM9113K-CR [□]	2MM9113WI-CR	2MM9113WO-CR	65	2.5591	100	3.9370	18	.7087
MM9114K-CR	2MM9114WI-CR	.....	70	2.7559	110	4.3307	20	.7874
MM9115K-CR [△]	2MM9115WI-CR	.....	75	2.9528	115	4.5276	20	.7874
MM9116K-CR	2MM9116WI-CR	.....	80	3.1496	125	4.9213	22	.8661
MM9117K-CR [△]	2MM9117WI-CR	2MM9117WO-CR	85	3.3465	130	5.1181	22	.8661
MM9118K	2MM9118WI-CR	.....	90	3.5433	140	5.5118	24	.9449
MM9120K	2MM9120WI-CR	.....	100	3.9370	150	5.9055	24	.9449
MM9122K-CR	2MM9122WI-CR	.....	110	4.3307	170	6.6929	28	1.1024
MM9124K	2MM9124WI-CR	.....	120	4.7244	180	7.0866	28	1.1024
MM9126K-MBR [△]	2MM9126WI-CR	.....	130	5.1181	200	7.8740	33	1.2992
.....	2MM9128WI-CR	.....	140	5.5118	210	8.2677	33	1.2992
.....	2MM9130WI-CR	.....	150	5.9055	225	8.8583	35	1.3780
.....	2MM9134WI-CR	.....	170	6.6929	260	10.2362	42	1.6535
.....	2MM9140WI-CR	.....	200	7.8740	310	12.2047	51	2.0079

[△] Also available with steel retainer.

[□] Also available with bronze retainer.

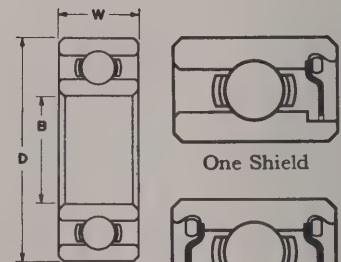


TYPE MV PRECISION (MODIFIED ABEC-7)

Critical applications demand ABEC-7 tolerances. Most instrument applications involve selective matching of bearing bores to shafts in order to attain a smaller fit range. MV precision instrument bearings are held to ABEC-7 tolerances except for bores.

MV INSTRUMENT PRECISION SERIES

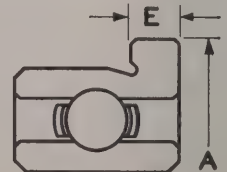
BEARING No.					Bore, B	Outside Dia., D	Width, W	Width Shielded,	Flange	
Single Row	One Shield	Two Shields	Flanged	Flanged Two Shields					Diam. A	Width E
MV33K3	MV33KD3	MV33KDD3	MVF33K3	MVF33KDD3	.1250	.3750	.1562	.1562	.4400	.030
MV33K4	.....	.....	.....	.....	.1250	.5000	.1719	.....	.....	.....
MV33K5	MV33KD5	MV33KDD5	MVF33K5	MVF33KDD5	.1875	.5000	.1562	.1960	.5650	.042
MVS1K7	MVS1KD7	MVS1KDD7	MVFS1K7	MVFS1KDD7	.2500	.6250	.1960	.1960	.6900	.042
MVS1K	.....	MVS1KDD	.....	.....	.2500	.7500	.2188	.2812	.....	.....
MVS3K	MVS3KD	MVS3KDD	MVFS3K	MVFS3KDD	.3750	.8750	.2188	.2812	.9690	.062



One Shield



Two Shields

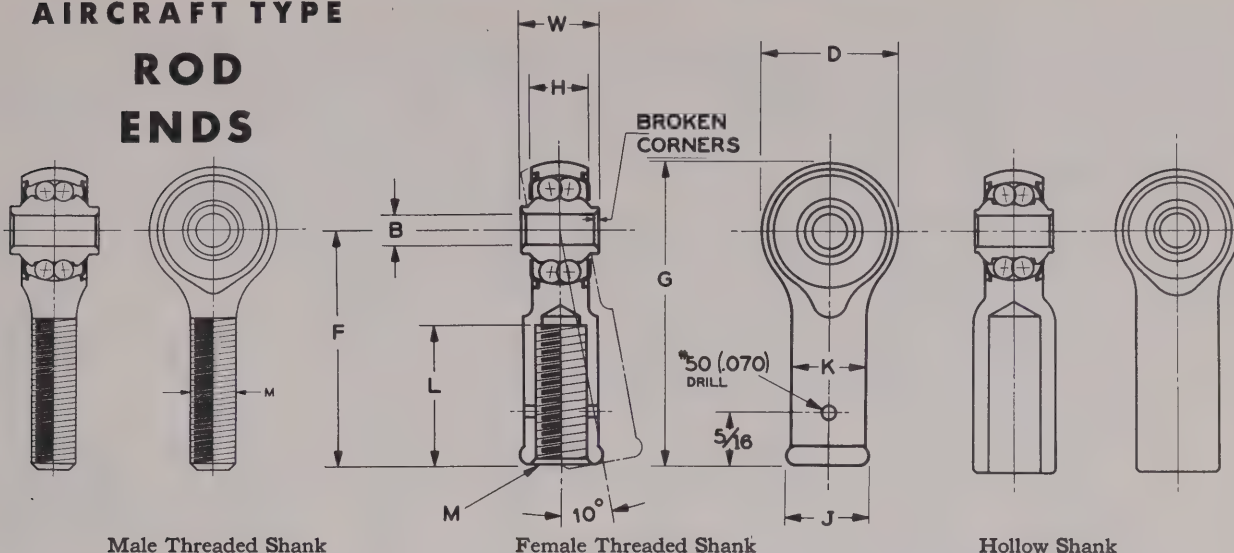


Flanged Type

FAFNIR AIRCRAFT TYPE

AIRCRAFT TYPE

ROD ENDS



Male Threaded Shank

Female Threaded Shank

Hollow Shank

BEARING NUMBER	B	D	W	H	F	G	L	J	K	M	Maximum Static Non-Brinell Rating Radial Pounds	REMARKS
	BORE +.0000 -.0005 Inches	Outside Diam- eter +.010 -.010 Inches	Width Inner Ring +.000 -.005 Inches	Width Outer Ring +.010 -.010 Inches	BORE Center to End of Shank +.010 -.010 Inches	Overall Dimension +.010 -.010 Inches	Thread Length or Shank Hole Depth Inches	Bead or Hex. Diameter Across Flats Inches	Shank Diameter +.010 -.010 Inches	NF3 THR'AD Size		

MALE THREAD

RE3ML3A*	.1900	.781	.245	.213	1.375	1.766	.750	....	....	10-32	1000	L.H. Thread
RE3ML3	.1900	.781	.437	.328	1.375	1.766	.750	....	....	10-32	800	L.H. Thread
RE3MR3	.1900	.781	.437	.328	1.375	1.766	.750	....	....	10-32	800	R.H. Thread
RA3M4-2	.1900	.781	.500	.438	1.812	2.203	.938	....	....	1/4"-28	800	R.H. Thread Plya-Seal
RA3M5	.1900	.781	.562	.438	1.938	2.328	1.375	....	....	5/16"-24	800	R.H. Thread Plya-Seal
RE3M6A	.1900	.969	.500	.407	2.031	2.516	1.313	....	....	3/8"-24	900	R.H. Thread
RE3M6-2N	.1900	.781	.437	.328	1.375	1.766	.750	....	....	3/8"-24	800	R.H. Thread
RE3ML6-2N	.1900	.781	.437	.328	1.375	1.766	.750	....	....	3/8"-24	800	L.H. Thread
RE4M6	.2500	.938	.593	.438	1.875	2.344	1.125	....	....	3/8"-24	1300	R.H. Thread
RE4ML6	.2500	.938	.593	.438	1.875	2.344	1.125	....	....	3/8"-24	1300	L.H. Thread
RA4M7	.2500	.938	.687	.531	2.250	2.719	1.625	....	....	7/16"-20	1300	R.H. Thread Plya-Seal
RR4M9 □	.2500	1.063	.625	.469	2.563	3.094	1.875	....	....	9/16"-18	....	R.H. Thread Plya-Seal
RE5M6	.3125	1.250	.870	.656	2.438	3.063	1.563	....	....	3/8"-24	2200	R.H. Thread Plya-Seal
RE5M7	.3125	1.250	.870	.656	2.438	3.063	1.563	....	....	7/16"-20	2200	R.H. Thread Plya-Seal
RE5M10	.3125	1.250	.870	.656	2.438	3.063	1.563	....	....	5/8"-18	2200	R.H. Thread Plya-Seal
RR5M12 □	.3125	1.438	.812	.656	3.125	3.844	2.219	....	....	3/4"-16	....	R.H. Thread Plya-Seal
RR6M14 □	.3750	1.750	.937	.750	3.563	4.438	2.438	....	....	1/2"-14	....	R.H. Thread Plya-Seal
RA10M10	.6250	2.000	1.125	.938	2.750	3.750	1.500	....	....	5/8"-18	5700	R.H. Thread Plya-Seal

FEMALE THREAD

REB3N	.1900	.781	.437	.328	1.375	1.766	.750	.438	.375	1/4"-28	800	Beaded Shank End R.H.
REB3N2	.1900	.781	.437	.328	1.375	1.766	.750	.438	.438	5/16"-24	800	Hex End R.H. Thread
RE3FL4	.1900	.781	.500	.328	1.375	1.766	.750	.438	.375	1/4"-28	800	Beaded Shank End R.H.
RE3FL4	.1900	.781	.500	.328	1.375	1.766	.750	.438	.375	1/4"-28	800	Beaded Shank End L.H.
RE3FL4-3	.1900	.781	.437	.328	1.375	1.766	.750	.438	.375	1/4"-28	800	Beaded Shank End L.H.
RE4F5	.2500	.938	.593	.438	1.469	1.938	.750	.438	.438	5/16"-24	1300	Hex End R.H. Thread
RE4FL5	.2500	.938	.593	.438	1.469	1.938	.813	.438	.438	5/16"-24	1300	L.H. Thread
RE4F7	.2500	.938	.593	.438	1.875	2.344	1.125	.625	.625	7/16"-20	1300	R.H. Thread
RE4FL7	.2500	.938	.593	.438	1.875	2.344	1.125	.625	.625	7/16"-20	1300	L.H. Thread
RE5F5	.3125	1.250	.870	.656	1.875	2.500	1.000	....	.438	5/16"-24	1300	R.H. Thread Plya-Seal
RE5FL5	.3125	1.250	.870	.656	1.875	2.500	1.000	....	.438	5/16"-24	1300	L.H. Thread Plya-Seal

SOLID AND HOLLOW SHANK

RE3H5	.1900	.781	.437	.328	1.375	1.766	.875	....	.435§	"I"	800	Plain Shank—Hollow
RE3S7	.1900	.781	.437	.328	1.375	1.766	....	.430	....	....	800	Solid Shank
RE4H6†	.2500	.938	.593	.438	1.875	2.344	1.219	....	.625†	"W"	1300	Plain Shank—Hollow
RE4H8	.2500	.938	.593	.438	1.625	2.093	.875	....	.625§	....	1300	Hollow Shank
RE4S10	.2500	.938	.593	.438	1.875	2.344	....	....	.625§	....	1300	Plain Shank—Solid

* Rigid Type—not alignable

† Also available with solid shank (E3693)

‡ +.005 —.005

§ +.000 —.002

□ Spherical Roller Type

Many of the above bearings are available in special precision tolerances.

NEED HELP ON BEARINGS—CALL US

FAFNIR AIRCRAFT TYPE

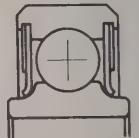
For reciprocating mechanisms and control linkages. Primarily intended for aircraft usage, their use, however, is not confined to the aircraft field. Many commercial applications, where motion is reciprocating rather than rotational, have been found.

All full type (retainerless) bearings shown on the following pages are intended for use only where the service is primarily oscillating. If it is necessary to use full type bearings for rotational service, it is strongly recommended that we be consulted.

BEARING NUMBER	BORE	O.D.	WIDTH INNER RING	WIDTH OUTER RING	O.D. INNER RING APPROX.	STATIC CAPACITY (LBS.)		TYPE
	+.0000 —.0005 (Except as noted)		+.000 —.005 (Except as noted)			Radial	Thrust	

KP SERIES, HEAVY DUTY, PLYA-SEALS

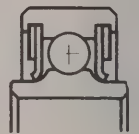
K3L*	.1900	.6250	.245	.203	.280	1560	700
KP3	.1900	.7774	.297	.270	.331	1880	900
KP4	.2500	.9014	.484	.335	.390	2680	1200
KP5	.3125	1.2500	.558	.375	.469	5620	2500
KP6	.3750	1.4375	.620	.469	.591	7910	3500
KP8	.5000	1.6875	.620	.500	.768	11800	5200
KP10	.6250	1.9375	.620	.500	.850	14100	6200

**KP-A SERIES, DEEP GROOVE, PLYA-SEALS**

KP3A	.1900	.6250	.297	.234	.297	1560	700
KP4A	.2500	.7500	.281	.219	.380	1880	900
KP5A	.3125	.8125	.297	.234	.415	2190	1000
KP6A	.3750	.8750	.313	.250	.495	2500	1100
KP8A	.5000	1.1250	.375	.313	.616	3910	1700
KP10A	.6250	1.3750	.406	.344	.768	6700	3000
KP12A	.7500	1.6250	.437	.375	.919	8790	3900
KP16A	1.0000	2.0000	.500	.438	1.241	11900	5200
KP20A	1.2500	2.2500	.500	.438	1.478	13800	6100

**KP-B SERIES, EXTRA LIGHT DUTY, BALL, PLYA-SEALS**

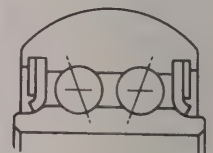
KP16B	1.0000 ²	1.7500 ²	.437	.375	1.141	8085	3600
KP21B	1.3130 ²	2.0625 ²	.437	.375	1.454	9840	4400
KP23B	1.4380 ²	2.1875 ²	.437	.375	1.574	10500	4700
KP25B	1.5630 ²	2.3125 ²	.437	.375	1.693	11300	5000
KP29B	1.8130 ²	2.5625 ²	.437	.375	1.931	12700	5600
KP33B	2.0630 ²	2.8125 ²	.437	.375	2.231	14400	6400
KP37B	2.3130 ²	3.0625 ²	.437	.375	2.468	15800	7000
KP47B†	2.9380 ²	3.8750 ²	.531	.469	3.093	24700	10200
KP49B†	3.0630 ²	4.0000 ²	.531	.469	3.222	27500	12100

**KP-BS SERIES, EXTERNAL SELF-ALIGNING, BALL, PLYA-SEALS**

KP16BS	1.000	1.9375	.437	.375	1.141	8085	1600
KP21BS	1.313	2.250	.437	.375	1.454	9840	2000
KP23BS	1.438	2.375	.437	.375	1.575	10500	2200
KP25BS	1.563	2.500	.437	.375	1.693	11300	2300
KP29BS	1.813	2.750	.437	.375	1.931	12700	2600
KP33BS	2.063	3.000	.437	.375	2.231	14400	2900
KP37BS	2.313	3.250	.437	.375	2.468	15800	3200
KP47BS	2.938	4.125	.531	.469	3.093	24700	5000
KP49BS	3.063	4.250	.531	.469	3.222	27500	5500

**TRACK ROLLER, SINGLE AND DOUBLE ROW, TWO PLYA-SEALS OR SHIELDS**

K3L2	.1900	.687 ⁶	.245	.203	.280	200	Maximum safe working loads (Radial only)
K3L3	.1900	.635 ⁷	.245	.203	.280	200	
KP3AR11-2	.1900	.718	.297	.265	.297	300	
K3LR48	.1900	.687 ⁶	.245	.203	.280	200	
KP4R16	.2500	.9014	.484	.335	.390	400	
KP4R16-2	.2500	1.000	.390	.335	.390	500	
D7R6-2	.4375	1.250 ⁹	.625	.600 ⁹	.545	1000	
D7R6-3	.4375	1.250	.625	.600	.545	2000	
D7R48-3	.4375	1.250 ⁹	.630	.570 ⁹	.545	1000	
K8AR4	.5000	1.250	.344	.375	.610	500	
DP8A3	.5000	1.225 ¹⁰	.625	.527	.610	1000	
DP8A4	.5000	1.5000	.625	.527	.610	1800	

**FAIRLEAD TYPE**

FL3C3	.1905	.798 ²	.297	.234	.244	200	Maximum safe working load
FL3C6	.1905 ²	1.2500	.484	.350	.330	500	



²+.0000 —.0010 ⁶+.000 —.002 ⁷+.000 —.003 ⁹+.005 —.005 ¹⁰+.000 —.005

*Stainless steel shield (for "Plya-Seals" use KP3A which has same bore and O.D.)

†Also available with retainers for ROTATIONAL applications identified as follows: K47BK, with or without shields, and K49BK (not cadmium plated) without shields, only.

NEED HELP ON BEARINGS—CALL US

FAFNIR AIRCRAFT TYPE

BEARING NUMBER	BORE	O.D.	WIDTH INNER RING	WIDTH OUTER RING	O.D. INNER RING APPROX.	STATIC CAPACITY LBS.		TYPE
	+.0000 —.0005 (Except as noted)		+.000 —.005 (Except as noted)			Radial	Thrust	

KS series, self-aligning, stainless steel shields

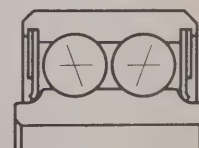
KS3	.1900	.7774	.297	.270	.342	900	200
KS3L	.1900	.6250	.245	.203	.257	550	100
KS4	.2500	.9014	.484	.335	.400	1410	300
KS4A*	.2500	.7500	.281	.219	.366	900	200
KS5	.3125	1.2500	.558	.375	.562	2190	300
KS5A*	.3125	.8125	.297	.234	.421	1000	200
KS6	.3750	1.4375	.620	.469	.612	2980	400
KS6A*	.3750	.8750	.313	.250	.475	1120	200
KS8	.5000	1.6875	.620	.500	.792	3670	500
KS10	.6250	1.9375	.813	.625	.917	5320	600



*These bearings are self-aligning for 10° in either direction except those marked KS4A, KS5A and KS6A which are self-aligning for 8° in either direction.

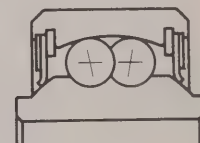
DPP series, ball, Plya-Seals

DPP3	.1900	.7774	.495	.473	.302	2950	1700
DPP4	.2500	.9014	.620	.491	.410	5370	1800
DPP5	.3125	1.2500	.745	.687	.469	11000	4000
DPP6	.3750	1.4375	.870	.794	.551	15760	5300
DPP8	.5000	1.6875	.932	.856	.735	23600	7800
DPP10	.6250	1.9375	.995	.920	.890	28400	9400



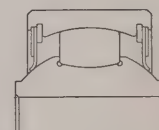
DSP series, self-aligning ball, Plya-Seals

DSP3	.1900	.7774	.500	.392	.304	1420	200
DSP4	.2500	.9014	.687	.464	.430	1780	300
DSP5	.3125	1.2500	.812	.656	.515	3740	600
DSP6	.3750	1.4375	.937	.750	.564	5100	800
DSP8	.5000	1.6875	1.000	.812	.775	7120	1000
DSP10	.6250	1.9375	1.125	.937	.869	9000	1300



*DSRP series, self-aligning, roller, Plya-Seals^Δ

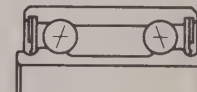
DSRP4	.2500	.9014	.625	.464	.404	3025	30% of radial rating
DSRP5	.3125	1.2500	.812	.656	.515	7350	
DSRP6	.3750	1.4375	.937	.750	.564	9600	
DSRP8	.5000	1.6875	1.000	.812	.775	12500	
DSRP10	.6250	1.9375	1.125	.937	.869	17700	
DSRP12	.7500	2.3750	1.312	1.125	1.150	26900	



^ΔThese bearings are self-aligning for 10° in either direction. *Add G prefix for relubrication hole.

DW series, double row rigid, extra wide, Plya-Seals (eliminates spacers)

DW4K★	.2500	.7500	.8750	.7500	.435	2770	900
DW4K2★	.2500	.6250	.5620	.5000	.344	1400	500
DW5	.3125	.8750	.9375	.8125	.472	5140	1600
DW6	.3750	1.0625	1.1875	1.0625	.576	8440	2600
DW8	.5000	1.4375	1.5000	1.3750	.715	15520	4700



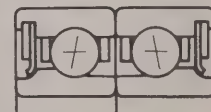
★Retainer type.

Guide Roll, Helicopter and Pulley series

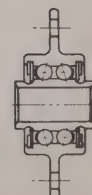
G4Y17	.2500	1.032 ²	.625	.563	.410	400	
GD5M20	.3125	1.015	.9375	.8125	.472	600	



††Y64KPP	4.0000 ⁵	5.1250 ⁵	1.000		4.237	12200	10800
Y64PWI (DB)	4.000 ⁵	5.1250 ⁵	.625**	.625**	4.252	35000	17500
Y80PWI (DB)	5.000 ²	6.1250 ²	.625**	.625**	5.252	43000	21500
Y96PWI (DB)	6.000 ²	7.1250 ²	.625**	.625**	6.252	50800	25400
Y128PWI	8.0000 ⁶	9.1250	.625**	.625**	8.252	64500	32200
Y176PWI	11.0000 ⁷	12.5000 ¹⁰	.750***	.750***	11.377	106800	53400



BCP4W10	.2500	1.6250 ³	.6250	.500 ⁹	.404	1400	700
BCP5W11	.3125	1.6875 ³	.6875	.562 ⁹	.453	1700	900



²+.0000 —.0010

³Outside Flange Diameter +.010 —.010

††Single Bearing with Two Seals.

***Duplex Pair is twice this width.

⁵+.0000 —.0008

⁶+.0000 —.0012

⁷+.0000 —.0014

⁸+.0005 —.005

¹⁰+.0000 —.0016

**Width for Duplex pair
2 x .625 (+.000 —.020)

KILIAN BALL BEARINGS

UNGROUND RADIAL BALL BEARINGS

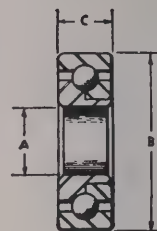
Single Row



The Kilian line of unground ball bearings is made wholly from screw machine parts. All standard single row bearings shown are flush on the inner and outer raceways. In any application where loads are moderate and speeds relatively low, these inexpensive bearings can be used to advantage.

To calculate load ratings of speeds other than 600 r.p.m., multiply the capacity specified for 600 r.p.m. by the following factors:

R.P.M.	50	100	300	900	1000
Factor	3.6	2.7	1.4	0.8	0.7



Bearing No.	Bore (A) +.004 -.000	Out. Dia. (B) +.002 -.002	Width (C) +.003 -.003	No. of Balls	Size of Balls	Load at 600 R.P.M.
SR-253	$\frac{3}{16}$	$\frac{11}{16}$	$\frac{1}{4}$	11	$\frac{1}{8}$	29
SR-254	$\frac{1}{4}$	$\frac{11}{16}$	$\frac{1}{4}$	12	$\frac{1}{8}$	32
SR-255	$\frac{1}{4}$	$\frac{3}{4}$	$\frac{1}{4}$	13	$\frac{1}{8}$	34
SR-255-89	$\frac{3}{16}$	$\frac{3}{4}$	$\frac{1}{4}$	13	$\frac{1}{8}$	34
SR-255-90	$\frac{7}{32}$	$\frac{3}{4}$	$\frac{1}{4}$	13	$\frac{1}{8}$	34
SR-260	$\frac{1}{4}$	$\frac{13}{16}$	$\frac{1}{4}$	13	$\frac{1}{8}$	34
SR-260-26	$\frac{5}{16}$	$\frac{13}{16}$	$\frac{1}{4}$	15	$\frac{1}{8}$	40
SR-266	$\frac{3}{16}$	$\frac{7}{8}$	$\frac{1}{4}$	12	$\frac{5}{32}$	49
SR-267	$\frac{1}{4}$	$\frac{7}{8}$	$\frac{1}{4}$	12	$\frac{5}{32}$	49
SR-268	$\frac{5}{16}$	$\frac{7}{8}$	$\frac{1}{4}$	15	$\frac{1}{8}$	40
SR-269	$\frac{3}{8}$	$\frac{7}{8}$	$\frac{1}{4}$	16	$\frac{1}{8}$	42
SR-270	$\frac{5}{16}$	$\frac{29}{32}$	$\frac{5}{16}$	13	$\frac{5}{32}$	53
SR-271	$\frac{3}{8}$	$\frac{29}{32}$	$\frac{5}{16}$	16	$\frac{1}{8}$	42
SR-272	$\frac{7}{16}$	$\frac{29}{32}$	$\frac{5}{16}$	17	$\frac{1}{8}$	45
SR-280	$\frac{5}{16}$	$\frac{15}{16}$	$\frac{5}{16}$	13	$\frac{5}{32}$	53
SR-281	$\frac{3}{8}$	$\frac{15}{16}$	$\frac{5}{16}$	17	$\frac{1}{8}$	45
SR-282	$\frac{7}{16}$	$\frac{15}{16}$	$\frac{5}{16}$	17	$\frac{1}{8}$	45
SR-290	$\frac{1}{4}$	1	$\frac{5}{16}$	13	$\frac{5}{32}$	53
SR-290-90	$\frac{3}{8}$	1	$\frac{5}{16}$	14	$\frac{5}{32}$	57
SR-290-99	$\frac{5}{16}$	1	$\frac{5}{16}$	14	$\frac{5}{32}$	57
SR-311	$\frac{1}{4}$	$\frac{11}{16}$	$\frac{1}{4}$	13	$\frac{5}{32}$	53
SR-312	$\frac{5}{16}$	$\frac{11}{16}$	$\frac{1}{4}$	13	$\frac{5}{32}$	53
SR-313	$\frac{3}{8}$	$\frac{11}{16}$	$\frac{1}{4}$	14	$\frac{5}{32}$	57
SR-311-66	$\frac{7}{16}$	$\frac{11}{16}$	$\frac{1}{4}$	15	$\frac{5}{32}$	61
SR-314	$\frac{5}{16}$	$\frac{11}{16}$	$\frac{3}{8}$	13	$\frac{5}{32}$	53
SR-315	$\frac{3}{8}$	$\frac{11}{16}$	$\frac{3}{8}$	14	$\frac{5}{32}$	57
SR-316	$\frac{7}{16}$	$\frac{11}{16}$	$\frac{3}{8}$	15	$\frac{5}{32}$	61
SR-333	$\frac{3}{8}$	$\frac{11}{8}$	$\frac{3}{8}$	14	$\frac{5}{32}$	57
SR-335	$\frac{7}{16}$	$\frac{11}{8}$	$\frac{3}{8}$	16	$\frac{5}{32}$	66
SR-337	$\frac{1}{2}$	$\frac{11}{8}$	$\frac{3}{8}$	16	$\frac{5}{32}$	66
SR-338	$\frac{9}{16}$	$\frac{11}{8}$	$\frac{3}{8}$	16	$\frac{5}{32}$	66
SR-340	$\frac{3}{8}$	$\frac{13}{16}$	$\frac{3}{8}$	13	$\frac{3}{16}$	81
SR-340-30	$\frac{7}{16}$	$\frac{13}{16}$	$\frac{3}{8}$	14	$\frac{3}{16}$	84
SR-342	$\frac{3}{8}$	$\frac{11}{4}$	$\frac{3}{8}$	13	$\frac{3}{16}$	81
SR-342-58	$\frac{1}{2}$	$\frac{11}{4}$	$\frac{3}{8}$	15	$\frac{3}{16}$	87
SR-342-59	$\frac{5}{16}$	$\frac{11}{4}$	$\frac{3}{8}$	15	$\frac{3}{16}$	87
SR-342-60	$\frac{7}{16}$	$\frac{11}{4}$	$\frac{3}{8}$	15	$\frac{3}{16}$	87
SR-344	$\frac{5}{16}$	$\frac{19}{32}$	$\frac{5}{16}$	15	$\frac{3}{16}$	87
SR-345	$\frac{3}{8}$	$\frac{19}{32}$	$\frac{5}{16}$	15	$\frac{3}{16}$	87
SR-346	$\frac{7}{16}$	$\frac{19}{32}$	$\frac{5}{16}$	15	$\frac{3}{16}$	87
SR-347	$\frac{1}{2}$	$\frac{19}{32}$	$\frac{5}{16}$	15	$\frac{3}{16}$	87

Bearing No.	Bore (A) +.004 -.000	Out. Dia. (B) +.002 -.002	Width (C) +.003 -.003	No. of Balls	Size of Balls	Load at 600 R.P.M.
SR-360	$\frac{3}{8}$	$\frac{15}{16}$	$\frac{3}{8}$	15	$\frac{3}{16}$	87
SR-360-5	$\frac{1}{2}$	$\frac{15}{16}$	$\frac{3}{8}$	15	$\frac{3}{16}$	87
SR-360-15	$\frac{5}{16}$	$\frac{15}{16}$	$\frac{3}{8}$	15	$\frac{3}{16}$	87
SR-360-16	$\frac{7}{16}$	$\frac{15}{16}$	$\frac{3}{8}$	15	$\frac{3}{16}$	87
SR-380	$\frac{7}{16}$	$\frac{13}{8}$	$\frac{7}{16}$	17	$\frac{3}{16}$	99
SR-381	$\frac{1}{2}$	$\frac{13}{8}$	$\frac{7}{16}$	17	$\frac{3}{16}$	99
SR-382	$\frac{9}{16}$	$\frac{13}{8}$	$\frac{7}{16}$	17	$\frac{3}{16}$	99
SR-383	$\frac{5}{8}$	$\frac{13}{8}$	$\frac{7}{16}$	17	$\frac{3}{16}$	99
SR-400	$\frac{9}{16}$	$\frac{17}{16}$	$\frac{7}{16}$	17	$\frac{3}{16}$	99
SR-401	$\frac{5}{8}$	$\frac{17}{16}$	$\frac{7}{16}$	17	$\frac{3}{16}$	99
SR-500	$\frac{1}{2}$	$\frac{11}{2}$	$\frac{7}{16}$	13	$\frac{1}{4}$	136
SR-501	$\frac{9}{16}$	$\frac{11}{2}$	$\frac{7}{16}$	13	$\frac{1}{4}$	136
SR-503	$\frac{5}{8}$	$\frac{11}{2}$	$\frac{7}{16}$	13	$\frac{1}{4}$	136
SR-550	$\frac{1}{2}$	$\frac{19}{16}$	$\frac{7}{16}$	14	$\frac{1}{4}$	147
SR-550-2	$\frac{5}{8}$	$\frac{19}{16}$	$\frac{7}{16}$	14	$\frac{1}{4}$	147
SR-600	$\frac{11}{16}$	$\frac{15}{8}$	$\frac{3}{8}$	15	$\frac{1}{4}$	157
SR-620	$\frac{3}{4}$	$\frac{15}{8}$	$\frac{3}{8}$	15	$\frac{1}{4}$	157
SR-700	$\frac{3}{4}$	$\frac{11}{16}$	$\frac{1}{2}$	15	$\frac{1}{4}$	157
SR-750	$\frac{3}{4}$	$\frac{13}{4}$	$\frac{9}{16}$	15	$\frac{1}{4}$	157
SR-780	$\frac{13}{16}$	$\frac{13}{4}$	$\frac{9}{16}$	16	$\frac{1}{4}$	168
SR-810	$\frac{3}{4}$	$\frac{13}{16}$	$\frac{1}{2}$	16	$\frac{1}{4}$	168
SR-810-9	$\frac{5}{8}$	$\frac{13}{16}$	$\frac{1}{2}$	16	$\frac{1}{4}$	168
SR-875	$\frac{13}{16}$	$\frac{17}{8}$	$\frac{1}{2}$	17	$\frac{1}{4}$	178
SR-900	$\frac{7}{8}$	$\frac{17}{8}$	$\frac{1}{2}$	17	$\frac{1}{4}$	178
SR-950	$\frac{3}{4}$	$\frac{15}{16}$	$\frac{1}{2}$	17	$\frac{1}{4}$	178
SR-950-5	$\frac{13}{16}$	$\frac{15}{16}$	$\frac{1}{2}$	17	$\frac{1}{4}$	178
SR-1010	$\frac{3}{4}$	2	$\frac{1}{2}$	19	$\frac{1}{4}$	200
SR-1100-3	$\frac{15}{16}$	2	$\frac{1}{2}$	19	$\frac{1}{4}$	200
SR-1150	1	$\frac{21}{8}$	$\frac{1}{2}$	20	$\frac{1}{4}$	210
SR-1150-12	$\frac{7}{8}$	$\frac{21}{8}$	$\frac{1}{2}$	20	$\frac{1}{4}$	210
SR-1200	$\frac{3}{4}$	$\frac{23}{16}$	$\frac{1}{2}$	21	$\frac{1}{4}$	220
SR-1220	$\frac{7}{8}$	$\frac{23}{16}$	$\frac{1}{2}$	21	$\frac{1}{4}$	220
SR-1250	1	$\frac{23}{16}$	$\frac{1}{2}$	21	$\frac{1}{4}$	220
SR-1260	$\frac{11}{8}$	$\frac{23}{16}$	$\frac{1}{2}$	21	$\frac{1}{4}$	220
SR-1300	$\frac{3}{4}$	$\frac{21}{4}$	$\frac{5}{8}$	21	$\frac{1}{4}$	220
SR-1330	1	$\frac{21}{4}$	$\frac{5}{8}$	21	$\frac{1}{4}$	220
SR-1360	$\frac{11}{8}$	$\frac{21}{4}$	$\frac{5}{8}$	21	$\frac{1}{4}$	220

Radial bearings have a thrust load capacity, in either direction equivalent to 50% of the radial capacity.

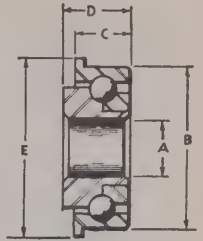
The sum of the radial and thrust loads on any installation should not exceed the radial load capacity.



KILIAN BALL BEARINGS UNGROUND RADIAL BALL BEARINGS

Flanged Type

Very often it is necessary to insert two ball bearings into pulleys, wheels, gears, etc. This construction makes it only necessary for a straight bore through a wheel or pulley, then pressing the bearing in place against the flange, obtaining at all times a true and concentric running fit.



Bearing No.	A	B	C	D	E	No. of Balls	Size of Balls	Load at 600 R.P.M.
F-150	1/4	11/16	1/4	5/16	13/16	12	1/8	32
F-155	1/4	3/4	1/4	5/16	7/8	12	1/8	32
F-160	1/4	13/16	1/4	5/16	29/32	13	1/8	34
F-162	1/4	13/16	1/4	5/16	15/16	13	1/8	34
F-165	5/16	7/8	1/4	5/16	1	15	1/8	40
F-175-1	1/4	29/32	3/8	7/16	1	13	5/32	53
F-175-2	5/16	29/32	3/8	7/16	1	13	5/32	53
F-175-3	3/8	29/32	3/8	7/16	1	16	1/8	42
F-175-4	7/16	29/32	3/8	7/16	1	17	1/8	42
F-200	5/16	15/16	11/32	7/16	11/16	13	5/32	53
F-200-1	7/16	29/32	11/32	7/16	11/16	17	1/8	45
F-225	3/8	1	3/8	7/16	11/8	14	5/32	57
F-250	7/16	11/16	3/8	7/16	13/16	15	5/32	61
F-250-2	3/8	11/16	3/8	7/16	13/16	15	5/32	61
F-300	1/2	11/8	3/8	1/2	11/4	16	5/32	65
F-300-19	3/8	11/8	3/8	1/2	11/4	16	5/32	65
F-310	1/2	13/16	3/8	1/2	15/16	16	5/32	65
F-325	9/16	11/4	7/16	1/2	13/8	18	5/32	74
F-325-4	7/16	11/4	7/16	1/2	13/8	15	3/16	87
F-335	7/16	15/16	7/16	1/2	17/16	15	3/16	87
F-350-11	3/8	13/8	7/16	1/2	11/2	11	1/4	115

Bearing No.	A	B	C	D	E	No. of Balls	Size of Balls	Load at 600 R.P.M.
F-350-12	1/2	13/8	7/16	1/2	11/2	12	1/4	125
F-350-13	5/8	13/8	7/16	1/2	11/2	17	3/16	99
F-350-14	7/16	13/8	7/16	1/2	11/2	12	1/4	125
F-400	9/16	17/16	7/16	9/16	19/16	13	1/4	135
F-500	11/16	11/2	7/16	5/8	15/8	18	3/16	110
F-550	1/2	19/16	17/32	21/32	111/16	12	1/4	125
F-600-3	3/4	15/8	1/2	9/16	13/4	15	1/4	157
F-700	3/4	111/16	1/2	9/16	113/16	15	1/4	157
F-750	3/4	13/4	9/16	5/8	17/8	15	1/4	157
F-750-21	1/2	13/4	9/16	5/8	17/8	15	1/4	157
F-750-22	5/8	13/4	9/16	5/8	17/8	15	1/4	157
F-800	13/16	113/16	9/16	5/8	115/16	17	1/4	178
F-850	5/8	17/8	9/16	5/8	2	17	1/4	178
F-850-1	1	17/8	9/16	5/8	2	18	1/4	189
F-950	15/16	115/16	9/16	5/8	21/16	18	1/4	189
F-1000	7/8	2	9/16	5/8	21/8	19	1/4	200
F-1000-4	1	2	9/16	5/8	21/8	19	1/4	200
F-1050	1	21/16	9/16	5/8	23/16	19	1/4	200
F-1100	11/4	21/8	9/16	5/8	21/4	21	1/4	220
F-1100-9	11/8	21/8	9/16	5/8	21/4	21	1/4	220

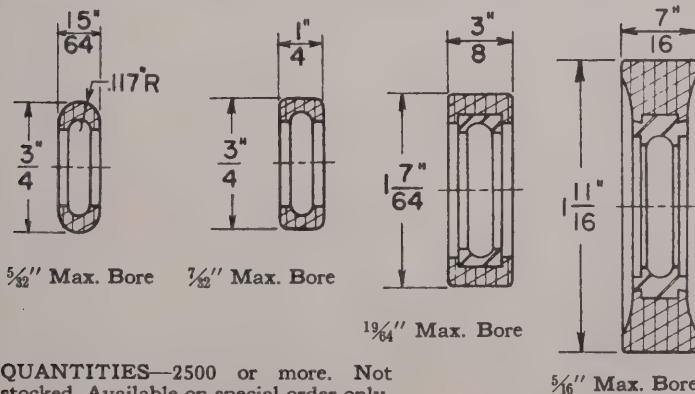
Note: All flanges are 1/16" thick except sizes F-150 through F-165 where flange thickness is 3/4".

KILIAN NYLON OUTER RACE BEARINGS

Kilian bearings are now available with Nylon Outer Races, with or without metal inserts. Races with metal inserts are for greater loads. The four sizes shown below are representative of the 22

sizes and types now available in sizes ranging from 5/32" to 5/16" bore and 3/4" to 111/16" O.D. The carbon steel inner races and ball assemblies are made to standard Kilian ball bearing specifications.

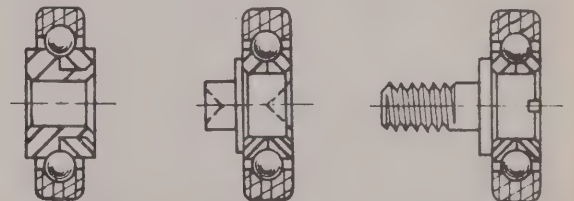
PART # 7065 PART # 7052 PART # 7206 PART # 7201



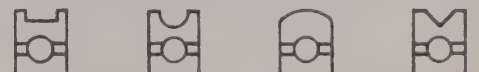
QUANTITIES—2500 or more. Not stocked. Available on special order only.

CAN BE FURNISHED WITH THE FOLLOWING INNER CONSTRUCTION:

BORE TYPE RIVET TYPE THREADED STUD

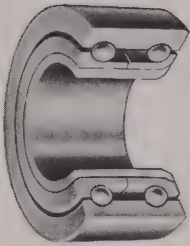


SPECIAL SHAPES CAN ALSO BE FURNISHED:



Following information must be furnished before we can quote: LOAD, SPEED, TYPE OF MOUNTING (Bore, Rivet or Threaded), TYPE OF APPLICATION (where it is used).

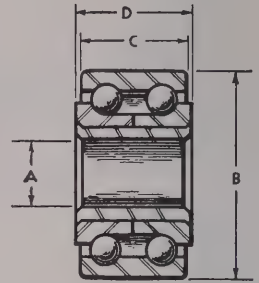
NEED HELP ON BEARINGS—CALL US

KILIAN BALL BEARINGS**UNGROUND RADIAL BALL BEARINGS****Double Row**

Where space is limited and loads are comparatively heavy and the single row ball bearings will not carry the loads, "D" type bearings having two rows of balls, are used.

To obtain load capacities at speeds other than 600 r.p.m. those listed in the tables below should be multiplied by the following conversion factors:

R.P.M.	50	100	300	900	1000
Factor	3.6	2.7	1.4	0.8	0.7



Bearing No.	Bore (A) +.004 -.000	Out. Dia. (B) +.002 -.002	Width Outer (C) +.003 -.003	Width Inner (D)	No. of Balls	Size of Balls	Load at 600 R.P.M.
D-2253	3/16	11/16	13/32	7/16	22	1/8	43
D-2254	1/4	11/16	13/32	7/16	24	1/8	48
D-2255	1/4	3/4	13/32	7/16	24	1/8	51
D-2255-6	3/16	3/4	13/32	7/16	24	1/8	51
D-2255-7	7/32	3/4	13/32	7/16	24	1/8	51
D-2260	5/16	13/16	13/32	7/16	30	1/8	60
D-2260-1	1/4	13/16	13/32	7/16	30	1/8	60
D-2266	3/16	7/8	13/32	7/16	24	5/32	73
D-2267	1/4	7/8	13/32	7/16	24	5/32	73
D-2268	5/16	7/8	13/32	7/16	30	1/8	60
D-2269	3/8	7/8	13/32	7/16	32	1/8	63
D-2270	5/16	29/32	13/32	7/16	30	1/8	60
D-2271	3/8	29/32	13/32	7/16	32	1/8	63
D-2272	7/16	29/32	13/32	7/16	34	1/8	67
D-2280	5/16	15/16	15/32	1/2	26	5/32	79
D-2281	3/8	15/16	15/32	1/2	34	1/8	67
D-2282	7/16	15/16	15/32	1/2	36	1/8	69
D-2290	3/8	1	13/32	7/16	28	5/32	85
D-2290-6	1/4	1	13/32	7/16	26	5/32	79
D-2290-7	5/16	1	13/32	7/16	26	5/32	79
D-2311	1/4	1 1/16	13/32	7/16	26	5/32	79
D-2312	5/16	1 1/16	13/32	7/16	26	5/32	79
D-2313	3/8	1 1/16	13/32	7/16	28	5/32	85
D-2314	5/16	1 1/16	17/32	9/16	26	5/32	79
D-2315	3/8	1 1/16	17/32	9/16	28	5/32	85
D-2316	7/16	1 1/16	17/32	9/16	30	5/32	91
D-2333	3/8	1 1/8	17/32	9/16	28	5/32	85
D-2335	7/16	1 1/8	17/32	9/16	32	5/32	99
D-2337	1/2	1 1/8	17/32	9/16	32	5/32	99
D-2338	9/16	1 1/8	17/32	9/16	42	1/8	85
D-2340	1/2	1 3/16	17/32	9/16	32	5/32	111
D-2340-3	7/16	1 3/16	17/32	9/16	32	5/32	116
D-2342	7/16	1 1/4	1/2	17/32	30	3/16	130
D-2342-6	5/16	1 1/4	1/2	17/32	30	3/16	130
D-2342-7	3/8	1 1/4	1/2	17/32	30	3/16	130
D-2342-8	1/2	1 1/4	1/2	17/32	30	3/16	130
D-2344	5/16	1 3/8	1/2	17/32	30	3/16	130
D-2347	1/2	1 3/8	1/2	17/32	30	3/16	130

Bearing No.	Bore (A) +.004 -.000	Out. Dia. (B) +.002 -.002	Width Outer (C) +.003 -.003	Width Inner (D)	No. of Balls	Size of Balls	Load at 600 R.P.M.
D-2360	1/2	15/16	1/2	17/32	30	3/16	130
D-2360-2	9/16	15/16	1/2	17/32	34	3/16	136
D-2360-3	3/8	15/16	1/2	17/32	30	3/16	130
D-2360-4	7/16	15/16	1/2	17/32	30	3/16	130
D-2380	7/16	1 3/8	19/32	5/8	34	3/16	148
D-2381	1/2	1 3/8	19/32	5/8	34	3/16	148
D-2382	9/16	1 3/8	19/32	5/8	34	3/16	148
D-2383	5/8	1 3/8	19/32	5/8	34	3/16	148
D-2400	9/16	1 7/16	19/32	5/8	34	3/16	148
D-2401	5/8	1 7/16	19/32	5/8	34	3/16	148
D-2500	1/2	1 1/2	23/32	3/4	26	1/4	204
D-2501	9/16	1 1/2	23/32	3/4	26	1/4	204
D-2503	5/8	1 1/2	23/32	3/4	26	1/4	204
D-2550	9/16	1 9/16	23/32	3/4	26	1/4	220
D-2550-2	5/8	1 9/16	23/32	3/4	26	1/4	220
D-2600	11/16	1 5/8	19/32	5/8	30	1/4	235
D-2620	3/4	1 5/8	19/32	5/8	30	1/4	235
D-2700	3/4	1 11/16	23/32	3/4	30	1/4	235
D-2750	3/4	1 3/4	29/32	15/16	30	1/4	235
D-2780	13/16	1 3/4	29/32	15/16	32	1/4	252
D-2810	3/4	1 13/16	23/32	3/4	30	1/4	240
D-2810-1	11/16	1 13/16	23/32	3/4	30	1/4	240
D-2875	13/16	1 7/8	27/32	7/8	34	1/4	267
D-2900	7/8	1 7/8	27/32	7/8	34	1/4	267
D-2950	15/16	1 15/16	27/32	7/8	38	1/4	300
D-2950-1	7/8	1 15/16	27/32	7/8	38	1/4	300
D-3010	3/4	2	27/32	7/8	38	1/4	300
D-3020	15/16	2	27/32	7/8	38	1/4	300
D-3040	1	2	27/32	7/8	38	1/4	300
D-3100	1	2 1/16	27/32	7/8	38	1/4	300
D-3100-3	15/16	2 1/16	27/32	7/8	38	1/4	300
D-3150	1	2 1/8	27/32	7/8	38	1/4	300
D-3150-1	15/16	2 1/8	27/32	7/8	38	1/4	300
D-3200	3/4	2 3/16	27/32	7/8	42	1/4	330
D-3260	1 1/8	2 3/16	27/32	7/8	42	1/4	330
D-3300	3/4	2 1/4	13/32	1 1/8	42	1/4	330
D-3330	1	2 1/4	13/32	1 1/8	42	1/4	330
D-3360	1 1/8	2 1/4	13/32	1 1/8	42	1/4	330

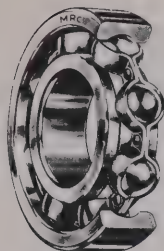
There are untold mountings where anti-friction unground ball bearings are now being used because of their economy.

NEED HELP ON BEARINGS—CALL US

MRC BALL BEARINGS

200, 300, 400 RADIAL SERIES

Standard and Shielded Types



Super Conrad
S Type



Maximum
M Type

The Super Conrad or Non-Filling Slot "S" Type carries the same diameter of balls as the Maximum Ball "M" Type but contains fewer of them, generally $\frac{3}{8}$ to $\frac{3}{4}$ of the number found in the "M" Type.

Type S—Recommended for moderately heavy radial loads, or heavy thrust loads in either direction, or combination of radial and thrust.

Type M—Recommended for heavy radial loads, or thrust loads in either direction or combinations of heavy radial and thrust. Has maximum number of balls assembled through filling notches. There is no possibility of interference of notches in the ball paths under rated thrust load.



Fig. 1
S and M Types
(Unshielded)

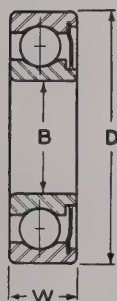


Fig. 2
Single Shield
Type
Add Suffix "F"
to regular number

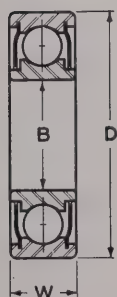


Fig. 3
Double Shield
Type
Add Suffix "FF"
to regular number

BEARING TYPE AND NO.				BORE (B)		OUT. DIA. (D)		WIDTH (W)	
S Type Fig. 1	M Type Fig. 1	F Single Shield Fig. 2	FF Double Shield Fig. 3	Mm	Inches	Mm	Inches	Mm	Inches
200-S	.....	200-F	200-FF	10	.3937	30	1.1811	9	.3543
201-S	.....	201-F	201-FF	12	.4724	32	1.2598	10	.3937
202-S	.....	202-F	202-FF	15	.5906	35	1.3780	11	.4331
203-S	.....	203-F	203-FF	17	.6693	40	1.5748	12	.4724
204-S	.....	204-F	204-FF	20	.7874	47	1.8504	14	.5512
205-S	.....	205-F	205-FF	25	.9843	52	2.0472	15	.5906
206-S	206-M	206-F	206-FF	30	1.1811	62	2.4409	16	.6299
207-S	207-M	207-F	207-FF	35	1.3780	72	2.8346	17	.6693
208-S	208-M	208-F	208-FF	40	1.5748	80	3.1496	18	.7087
209-S	209-M	209-F	209-FF	45	1.7717	85	3.3465	19	.7480
210-S	210-M	210-F	210-FF	50	1.9685	90	3.5433	20	.7874
211-S	211-M	211-F	211-FF	55	2.1654	100	3.9370	21	.8268
212-S	212-M	212-F	212-FF	60	2.3622	110	4.3307	22	.8661
213-S	213-M	213-F	213-FF	65	2.5591	120	4.7244	23	.9055
214-S	214-M	214-F	214-FF	70	2.7559	125	4.9213	24	.9449
215-S	215-M	215-F	215-FF	75	2.9528	130	5.1181	25	.9843
216-S	216-M	216-F	216-FF	80	3.1496	140	5.5118	26	1.0236
217-S	217-M	217-F	217-FF	85	3.3465	150	5.9055	28	1.1024
218-S	218-M	218-F	218-FF	90	3.5433	160	6.2992	30	1.1811
219-S	219-M	219-F	219-FF	95	3.7402	170	6.6929	32	1.2598
220-S	220-M	220-F	220-FF	100	3.9370	180	7.0866	34	1.3386
221-S	221-M	221-F	221-FF	105	4.1339	190	7.4803	36	1.4173
222-S	222-M	222-F	222-FF	110	4.3307	200	7.8740	38	1.4961

MEDIUM SERIES

300-S	.....	300-F	300-FF	10	.3937	35	1.3780	11	.4331
301-S	.....	301-F	301-FF	12	.4724	37	1.4567	12	.4724
302-S	.....	302-F	302-FF	15	.5906	42	1.6535	13	.5118
303-S	303-M	303-F	303-FF	17	.6693	47	1.8504	14	.5512
304-S	304-M	304-F	304-FF	20	.7874	52	2.0472	15	.5906
305-S	305-M	305-F	305-FF	25	.9843	62	2.4409	17	.6693
306-S	306-M	306-F	306-FF	30	1.1811	72	2.8346	19	.7480
307-S	307-M	307-F	307-FF	35	1.3780	80	3.1496	21	.8.68
308-S	308-M	308-F	308-FF	40	1.5748	90	3.5433	23	.9055
309-S	309-M	309-F	309-FF	45	1.7717	100	3.9370	25	.9843
310-S	310-M	310-F	310-FF	50	1.9685	110	4.3307	27	1.0630
311-S	311-M	311-F	311-FF	55	2.1654	120	4.7244	29	1.1417
312-S	312-M	312-F	312-FF	60	2.3622	130	5.1181	31	1.2205
313-S	313-M	313-F	313-FF	65	2.5591	140	5.5118	33	1.2992
314-S	314-M	314-F	314-FF	70	2.7559	150	5.9055	35	1.3780
315-S	315-M	315-F	315-FF	75	2.9528	160	6.2992	37	1.4567
316-S	316-M	316-F	316-FF	80	3.1496	170	6.6929	39	1.5354
317-S	317-M	317-F	317-FF	85	3.3465	180	7.0866	41	1.6142
318-S	318-M	318-F	318-FF	90	3.5433	190	7.4803	43	1.6929
319-S	319-M	319-F	319-FF	95	3.7402	200	7.8740	45	1.7717
320-S	320-M	320-F	320-FF	100	3.9370	215	8.4646	47	1.8504
321-S	321-M	321-F	.....	105	4.1339	225	8.8583	49	1.9291
322-S	322-M	.....	.....	110	4.3307	240	9.4488	50	1.9685

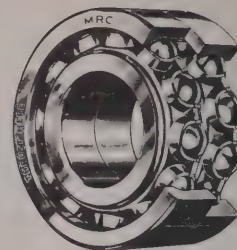
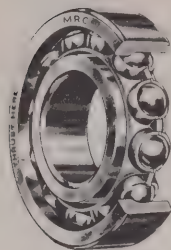
HEAVY SERIES

*403-S	*403-M	.....	.....	17	.6693	62	2.4409	17	.6693
*404-S	*404-M	.....	.....	20	.7874	72	2.8346	19	.7480
*405-S	*405-M	*405-F	.....	25	.9843	80	3.1496	21	.8268
*406-S	*406-M	*406-F	.....	30	1.1811	90	3.5433	23	.9055
*407-S	*407-M	*407-F	.....	35	1.3780	100	3.9370	25	.9843
*408-S	*408-M	*408-F	*408-FF	40	1.5748	110	4.3307	27	1.0630
*409-S	*409-M	.....	.....	45	1.7717	120	4.7244	29	1.1417
*410-S	*410-M	*410-F	*410-FF	50	1.9685	130	5.1181	31	1.2205
*411-S	*411-M	*411-F	*411-FF	55	2.1654	140	5.5118	33	1.2992
*412-S	*412-M	*412-F	*412-FF	60	2.3622	150	5.9055	35	1.3780
*413-S	*413-M	*413-F	*413-FF	65	2.5591	160	6.2992	37	1.4567
*414-S	*414-M	*414-F	*414-FF	70	2.7559	180	7.0866	42	1.6535
*415-S	*415-M	*415-F	*415-FF	75	2.9528	190	7.4803	45	1.7717
*416-S	*416-M	*416-F	*416-FF	80	3.1496	200	7.8740	48	1.8898
*417-S	*417-M	*417-F	*417-FF	85	3.3465	210	8.2677	52	2.0472
*418-S	*418-M	*418-F	*418-FF	90	3.5433	225	8.8583	54	2.1260
*419-S	*419-M	*419-F	*419-FF	95	3.7402	250	9.8425	55	2.1654
*420-S	*420-M	.....	.....	100	3.9370	265	10.4331	60	2.3622
*421-S				105	4.1339	290	11.4173	65	2.5591
*422-S				110	4.3307	320	12.5984	70	2.7559

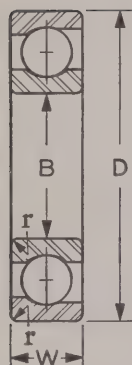
*Check for availability.

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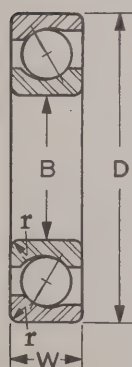
MRC BALL BEARINGS
EXTRA LARGE SINGLE ROW
TYPE R—RADIAL
TYPE 7000 ANGULAR CONTACT
AND DUPLEX 7000-D



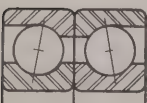
Can be furnished in Super Precision Quality



Radial Type "R"
Series
Can be furnished
in Duplex Pairs



Single Bearing
7000 Angular
Contact Series



7000 Duplex
Angular Contact
Series

RADIAL TYPE R	ANGULAR CONTACT TYPE	ANGULAR CONTACT DUPLEX	BORE (B)		OUTSIDE DIAMETER (D)		WIDTH (W)			
			Mm	Inches	Mm	Inches	SINGLE BEARING		DUPLEX 7000-D	
†*120-R	7120	7120-D	100	3.9370	160	6.2992	28	1.1024	56	2.2047
†*122-R	7122	7122-D	110	4.3307	175	6.8898	30	1.1811	60	2.3622
†*124-R	7124	7124-D	120	4.7244	190	7.4803	32	1.2598	64	2.5197
†126-R	7126	7126-D	130	5.1181	205	8.0709	34	1.3386	68	2.6772
†128-R	7128	7128-D	140	5.5118	220	8.6614	36	1.4173	72	2.8346
130-R	7130	7130-D	150	5.9055	235	9.2520	38	1.4961	76	2.9921
†*132-R	7132	7132-D	160	6.2992	250	9.8425	40	1.5748	80	3.1496
134-R	7134	7134-D	170	6.6929	265	10.4331	42	1.6535	84	3.3071
136-R	7136	7136-D	180	7.0866	280	11.0236	44	1.7323	88	3.4646
138-R	7138	7138-D	190	7.4803	300	11.8110	46	1.8110	92	3.6220
140-R	7140	7140-D	200	7.8740	320	12.5984	48	1.8898	96	3.7795
142-R	7142	7142-D	210	8.2677	340	13.3858	50	1.9685	100	3.9370
144-R	7144	7144-D	220	8.6614	350	13.7795	51	2.0079	102	4.0157
146-R	7146	7146-D	230	9.0551	370	14.5669	53	2.0866	106	4.1732
148-R	7148	7148-D	240	9.4488	390	15.3543	55	2.1654	110	4.3307
150-R	7150	7150-D	250	9.8425	410	16.1417	57	2.2441	114	4.4882
152-R	7152	7152-D	260	10.2362	430	16.9291	59	2.3228	118	4.6457
156-R	7156	7156-D	280	11.0236	460	18.1102	63	2.4803	126	4.9606
164-R	7164	7164-D	320	12.5984	500	19.6850	71	2.7953	142	5.5905

†224-R	7224	7224-D	120	4.7244	215	8.4646	40	1.5748	80	3.1496
†226-R	7226	7226-D	130	5.1181	230	9.0551	40	1.5748	80	3.1496
228-R	7228	7228-D	140	5.5118	250	9.8425	42	1.6535	84	3.3071
230-R	7230	7230-D	150	5.9055	270	10.6299	45	1.7717	90	3.5433
232-R	7232	7232-D	160	6.2992	290	11.4173	48	1.8898	96	3.7795
234-R	7234	7234-D	170	6.6929	310	12.2047	52	2.0472	104	4.0945
236-R	7236	7236-D	180	7.0866	320	12.5984	52	2.0472	104	4.0945
238-R	7238	7238-D	190	7.4803	340	13.3858	55	2.1654	110	4.3307
240-R	7240	7240-D	200	7.8740	360	14.1732	58	2.2835	116	4.5669
242-R	7242	7242-D	210	8.2677	380	14.9606	61	2.4016	122	4.8031
244-R	7244	7244-D	220	8.6614	400	15.7480	65	2.5591	130	5.1181
246-R	7246	7246-D	230	9.0551	420	16.5354	68	2.6772	136	5.3543
248-R	7248	7248-D	240	9.4488	440	17.3228	72	2.8346	144	5.6693
250-R	7250	7250-D	250	9.8425	460	18.1102	76	2.9921	152	5.9842
252-R	7252	7252-D	260	10.2362	480	18.8976	80	3.1496	160	6.2992
256-R	7256	7256-D	280	11.0236	500	19.6850	80	3.1496	160	6.2992
260-R	7260	7260-D	300	11.8110	540	21.2598	85	3.3465	170	6.6929
264-R	7264	7264-D	320	12.5984	580	22.8346	92	3.6220	184	7.2441

324-R	7324	7324-D	120	4.7244	260	10.2362	55	2.1654	110	4.3307
326-R	7326	7326-D	130	5.1181	280	11.0236	58	2.2835	116	4.5669
328-R	7328	7328-D	140	5.5118	300	11.8110	62	2.4409	124	4.8819
330-R	7330	7330-D	150	5.9055	320	12.5984	65	2.5591	130	5.1181
332-R	7332	7332-D	160	6.2992	340	13.3858	68	2.6772	136	5.3543
334-R	7334	7334-D	170	6.6929	360	14.1732	72	2.8346	144	5.6693
336-R	7336	7336-D	180	7.0866	380	14.9606	75	2.9528	150	5.9055
338-R	7338	7338-D	190	7.4803	400	15.7480	78	3.0709	156	6.1417
340-R	7340	7340-D	200	7.8740	420	16.5354	80	3.1496	160	6.2992
342-R	7342	7342-D	210	8.2677	440	17.3228	84	3.3071	168	6.6142
344-R	7344	7344-D	220	8.6614	460	18.1102	88	3.4646	176	6.9291
348-R	7348	7348-D	240	9.4488	500	19.6850	95	3.7402	190	7.4803
352-R	7352	7352-D	260	10.2362	540	21.2598	102	4.0157	204	8.0315
356-R	7356	7356-D	280	11.0236	580	22.8346	108	4.2520	216	8.5039

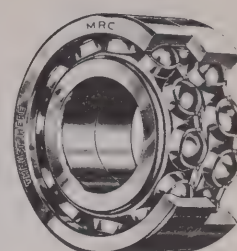
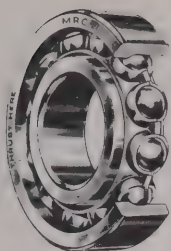
*122-R not interchangeable with 122 Narrow-Type Bearing.

†Available in shielded type RF.

†Type M Maximum-Capacity type available; external dimensions same as Type R.

*Type MF (Maximum-Capacity with single shield) available.

MRC BALL BEARINGS SINGLE ROW ANGULAR CONTACT AND DUPLEX

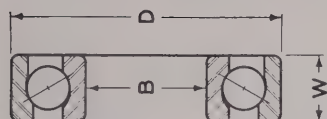


Single Row Angular Contact Type are designed for combination loading with high thrust capacity in one direction only.

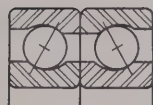
Duplex Series consist of two Angular Contact bearings, flush ground, for mounting in DB, DF or DT arrangement.

7000-P and 7000-PD Series, with greater angle of contact, are available for applications where maximum thrust capacity is required.

LIGHT SERIES



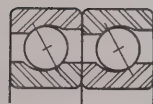
SINGLE BEARING



DUPLEX DB TYPE
"Back-to-Back" Position
(Carton Stamping "DB")
For great rigidity (machine
tool spindles).



DUPLEX DF TYPE
"Face-to-Face" Position
(Carton Stamping "DF")
For thrust and radial
loads.



DUPLEX DT TYPE
"Tandem" Position
(Carton Stamping "DT")
For extremely large
thrust load in one direction.

7000 Series Single Bearing No.	7000 Duplex Series DB, DF, DT	BORE (B)		OUTSIDE DIA. (D)		WIDTH (W)			
						SINGLE BRG.		DUPLEX SERIES	
		Mm	Inches	Mm	Inches	Mm	Inches	Mm	Inches
7200-S	7200-SD	10	.3937	30	1.1811	9	.3543	18	.7087
7201-S	7201-SD	12	.4724	32	1.2598	10	.3937	20	.7874
7202	7202-D	15	.5906	35	1.3780	11	.4331	22	.8661
7203	7203-D	17	.6693	40	1.5748	12	.4724	24	.9449
7204	7204-D	20	.7874	47	1.8504	14	.5512	28	1.1024
7205	7205-D	25	.9843	52	2.0472	15	.5906	30	1.1811
7206	7206-D	30	1.1811	62	2.4409	16	.6299	32	1.2598
7207	7207-D	35	1.3780	72	2.8346	17	.6693	34	1.3386
7208	7208-D	40	1.5748	80	3.1496	18	.7087	36	1.4173
7209	7209-D	45	1.7717	85	3.3465	19	.7480	38	1.4961
7210	7210-D	50	1.9685	90	3.5433	20	.7874	40	1.5748
7211	7211-D	55	2.1654	100	3.9370	21	.8268	42	1.6535
7212	7212-D	60	2.3622	110	4.3307	22	.8661	44	1.7323
7213	7213-D	65	2.5591	120	4.7244	23	.9055	46	1.8110
7214	7214-D	70	2.7559	125	4.9213	24	.9449	48	1.8898
7215	7215-D	75	2.9528	130	5.1181	25	.9843	50	1.9685
7216	7216-D	80	3.1496	140	5.5118	26	1.0236	52	2.0472
7217	7217-D	85	3.3465	150	5.9055	28	1.1024	56	2.2047
7218	7218-D	90	3.5433	160	6.2992	30	1.1811	60	2.3622
7219	7219-D	95	3.7402	170	6.6929	32	1.2598	64	2.5197
7220	7220-D	100	3.9370	180	7.0866	34	1.3386	68	2.6772
7221	7221-D	105	4.1339	190	7.4803	36	1.4173	72	2.8346
7222	7222-D	110	4.3307	200	7.8740	38	1.4961	76	2.9921

MEDIUM SERIES

7300-S	7300-SD	10	.3937	35	1.3780	11	.4331	22	.8661
7301-S	7301-SD	12	.4724	37	1.4567	12	.4724	24	.9449
7302	7302-D	15	.5906	42	1.6535	13	.5118	26	1.0236
7303	7303-D	17	.6693	47	1.8504	14	.5512	28	1.1024
7304	7304-D	20	.7874	52	2.0472	15	.5906	30	1.1811
7305	7305-D	25	.9843	62	2.4409	17	.6693	34	1.3386
7306	7306-D	30	1.1811	72	2.8346	19	.7480	38	1.4961
7307	7307-D	35	1.3780	80	3.1496	21	.8268	42	1.6535
7308	7308-D	40	1.5748	90	3.5433	23	.9055	46	1.8110
7309	7309-D	45	1.7717	100	3.9370	25	.9843	50	1.9685
7310	7310-D	50	1.9685	110	4.3307	27	1.0630	54	2.1260
7311	7311-D	55	2.1654	120	4.7244	29	1.1417	58	2.2835
7312	7312-D	60	2.3622	130	5.1181	31	1.2205	62	2.4409
7313	7313-D	65	2.5591	140	5.5118	33	1.2992	66	2.5984
7314	7314-D	70	2.7559	150	5.9055	35	1.3780	70	2.7559
7315	7315-D	75	2.9528	160	6.2992	37	1.4567	74	2.9134
7316	7316-D	80	3.1496	170	6.6929	39	1.5354	78	3.0709
7317	7317-D	85	3.3465	180	7.0866	41	1.6142	82	3.2283
7318	7318-D	90	3.5433	190	7.4803	43	1.6929	86	3.3858
7319	7319-D	95	3.7402	200	7.8740	45	1.7717	90	3.5433
7320	7320-D	100	3.9370	215	8.4646	47	1.8504	94	3.7008
7321	7321-D	105	4.1339	225	8.8583	49	1.9291	98	3.8583
7322	7322-D	110	4.3307	240	9.4488	50	1.9685	100	3.9370

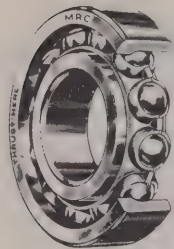
HEAVY SERIES

*7403	*7403-D	17	.6693	62	2.4409	17	.6693	34	1.3386
*7404	*7404-D	20	.7874	72	2.8346	19	.7480	38	1.4961
*7405	*7405-D	25	.9843	80	3.1496	21	.8268	42	1.6535
*7406	*7406-D	30	1.1811	90	3.5433	23	.9055	46	1.8110
*7407	*7407-D	35	1.3780	100	3.9370	25	.9843	50	1.9685
*7408	*7408-D	40	1.5748	110	4.3307	27	1.0630	54	2.1260
*7409	*7409-D	45	1.7717	120	4.7244	29	1.1417	58	2.2835
*7410	*7410-D	50	1.9685	130	5.1181	31	1.2205	62	2.4409
*7411	*7411-D	55	2.1654	140	5.5118	33	1.2992	66	2.5984
*7412	*7412-D	60	2.3622	150	5.9055	35	1.3780	70	2.7559
*7413	*7413-D	65	2.5591	160	6.2992	37	1.4567	74	2.9134
*7414	*7414-D	70	2.7559	180	7.0866	42	1.6535	84	3.3071
*7415	*7415-D	75	2.9528	190	7.4803	45	1.7717	90	3.5433
*7416	*7416-D	80	3.1496	200	7.8740	48	1.8898	96	3.7795
*7417	*7417-D	85	3.3465	210	8.2677	52	2.0472	104	4.0945
*7418	*7418-D	90	3.5433	225	8.8583	54	2.1260	108	4.2520
*7419	*7419-D	95	3.7402	250	9.8425	55	2.1654	110	4.3307
*7420	*7420-D	100	3.9370	265	10.4331	60	2.3622	120	4.7244
*7421	*7421-D	105	4.1339	290	11.4173	65	2.5591	130	5.1181
*7422	*7422-D	110	4.3307	320	12.5984	70	2.7559	140	5.5118

*Check for availability.

METHODS OF MOUNTING DUPLEX BEARINGS

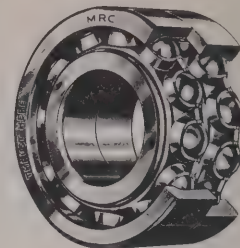
Duplex bearings can be mounted in three different ways to suit different loading conditions. M-R-C Duplex Bearings are shipped in pairs, wired together in the direction of mounting for which they are to be employed. Any pair can be used in any of the three positions shown, but it is best to specify the type of mounting desired so that the bearings can be especially checked for this particular service.



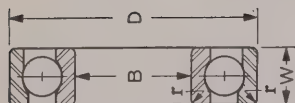
MRC BALL BEARINGS SINGLE ROW RADIAL TYPE R AND DUPLEX TYPE RD

Single Row Type R are radial bearings. The outer rings are counterbored thus permitting maximum number of balls for increased capacity.

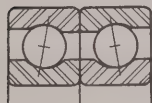
The Radial Type RD Duplex Bearing consists of a pair of Radial Type R single-row bearings, identically alike, which have been specially ground and intended for use together. Its use is recommended for machine tool spindle work where it is frequently found desirable to reduce the contact angle, thus giving greater radial rigidity and only a small decrease in axial rigidity.



Radial Type RD Duplex bearings can be furnished in super-precision quality.

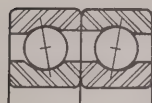


SINGLE BEARING



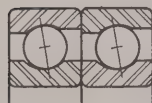
DUPLEX RDB TYPE

"Back-to-Back" Position
(Carton Stamping "RDB")
For great rigidity (machine tool spindles).



DUPLEX RDF TYPE

"Face-to-Face" Position
(Carton Stamping "RDF")
For thrust and radial loads.



DUPLEX RDT TYPE

"Tandem" Position
(Carton Stamping "RDT")
For machine tool spindle work where great radial rigidity is desired.

METHODS OF MOUNTING DUPLEX BEARINGS

Duplex bearings can be mounted in three different ways to suit different loading conditions. M-R-C Duplex Bearings are shipped in pairs, wired together in the direction of mounting for which they are to be employed. Any pair can be used in any of the three positions shown, but it is best to specify the type of mounting desired so that the bearings can be especially checked for this particular service.

LIGHT SERIES

R Series Single Bearing No.	RD Duplex Series DB, DF, DT	BORE (B)		OUTSIDE DIA. (D)		WIDTH (W)			
						SINGLE BRG. TYPE R		DUPLEX RD SERIES	
		Mm	Inches	Mm	Inches	Mm	Inches	Mm	Inches
202-R	202-RD	15	.5906	35	1.3780	11	.4331	22	.8661
203-R	203-RD	17	.6693	40	1.5748	12	.4724	24	.9449
204-R	204-RD	20	.7874	47	1.8504	14	.5512	28	1.1024
205-R	205-RD	25	.9843	52	2.0472	15	.5906	30	1.1811
206-R	206-RD	30	1.1811	62	2.4409	16	.6299	32	1.2598
207-R	207-RD	35	1.3780	72	2.8346	17	.6693	34	1.3386
208-R	208-RD	40	1.5748	80	3.1496	18	.7087	36	1.4173
209-R	209-RD	45	1.7717	85	3.3465	19	.7480	38	1.4961
210-R	210-RD	50	1.9685	90	3.5433	20	.7874	40	1.5748
211-R	211-RD	55	2.1654	100	3.9370	21	.8268	42	1.6535
212-R	212-RD	60	2.3622	110	4.3307	22	.8661	44	1.7323
213-R	213-RD	65	2.5591	120	4.7244	23	.9055	46	1.8110
214-R	214-RD	70	2.7559	125	4.9213	24	.9449	48	1.8898
215-R	215-RD	75	2.9528	130	5.1181	25	.9843	50	1.9685
216-R	216-RD	80	3.1496	140	5.5118	26	1.0236	52	2.0472
217-R	217-RD	85	3.3465	150	5.9055	28	1.1024	56	2.2047
218-R	218-RD	90	3.5433	160	6.2992	30	1.1811	60	2.3622
219-R	219-RD	95	3.7402	170	6.6929	32	1.2598	64	2.5197
220-R	220-RD	100	3.9370	180	7.0866	34	1.3386	68	2.6772
221-R	221-RD	105	4.1339	190	7.4803	36	1.4173	72	2.8346
222-R	222-RD	110	4.3307	200	7.8740	38	1.4961	76	2.9921

MEDIUM SERIES

302-R	302-RD	15	.5906	42	1.6535	13	.5118	26	1.0236
303-R	303-RD	17	.6693	47	1.8504	14	.5512	28	1.1024
304-R	304-RD	20	.7874	52	2.0472	15	.5906	30	1.1811
305-R	305-RD	25	.9843	62	2.4409	17	.6693	34	1.3386
306-R	306-RD	30	1.1811	72	2.8346	19	.7480	38	1.4961
307-R	307-RD	35	1.3780	80	3.1496	21	.8268	42	1.6535
308-R	308-RD	40	1.5748	90	3.5433	23	.9055	46	1.8110
309-R	309-RD	45	1.7717	100	3.9370	25	.9843	50	1.9685
310-R	310-RD	50	1.9685	110	4.3307	27	1.0630	54	2.1260
311-R	311-RD	55	2.1654	120	4.7244	29	1.1417	58	2.2835
312-R	312-RD	60	2.3622	130	5.1181	31	1.2205	62	2.4409
313-R	313-RD	65	2.5591	140	5.5118	33	1.2992	66	2.5984
314-R	314-RD	70	2.7559	150	5.9055	35	1.3780	70	2.7559
315-R	315-RD	75	2.9528	160	6.2992	37	1.4567	74	2.9134
316-R	316-RD	80	3.1496	170	6.6929	39	1.5354	78	3.0709
317-R	317-RD	85	3.3465	180	7.0866	41	1.6142	82	3.2283
318-R	318-RD	90	3.5433	190	7.4803	43	1.6929	86	3.3858
319-R	319-RD	95	3.7402	200	7.8740	45	1.7717	90	3.5433
320-R	320-RD	100	3.9370	215	8.4646	47	1.8504	94	3.7008
321-R	321-RD	105	4.1339	225	8.8583	49	1.9291	98	3.8583
322-R	322-RD	110	4.3307	240	9.4488	50	1.9685	100	3.9370

HEAVY SERIES

†*403-R	*403-RD	17	.6693	62	2.4409	17	.6693	34	1.3386
*404-R	*404-RD	20	.7874	72	2.8346	29	.7480	38	1.4961
*405-R	*405-RD	25	.9843	80	3.1496	21	.8268	42	1.6535
*406-D	*406-RR	30	1.1811	90	3.5433	23	.9055	46	1.8110
*407-R	*407-RD	35	1.3780	100	3.9370	25	.9843	50	1.9685
†*408-R	*408-RD	40	1.5748	110	4.3307	27	1.0630	54	2.1260
*409-R	*409-RD	45	1.7717	120	4.7244	29	1.1417	58	2.2835
*410-R	*410-RD	50	1.9685	130	5.1181	31	1.2205	62	2.4409
*411-R	*411-RD	55	2.1654	140	5.5118	33	1.2992	66	2.5984
*412-R	*412-RD	60	2.3622	150	5.9055	35	1.3780	70	2.7559
*413-R	*413-RD	65	2.5591	160	6.2992	37	1.4567	74	2.9134
*414-R	*414-RD	70	2.7559	180	7.0866	42	1.6535	84	3.3071
*415-R	*415-RD	75	2.9528	190	7.4803	45	1.7717	90	3.5433
*416-R	*416-RD	80	3.1496	200	7.8740	48	1.8898	96	3.7795
*417-R	*417-RD	85	3.3465	210	8.2677	52	2.0472	104	4.0945
*418-R	*418-RD	90	3.5433	225	8.8583	54	2.1260	108	4.2520
*419-R	*419-RD	95	3.7402	250	9.8425	55	2.1654	110	4.3307
*420-R	*420-RD	100	3.9370	265	10.4331	60	2.3622	120	4.7244
*421-R	*421-RD	105	4.1339	290	11.4173	65	2.5591	130	5.1181
*422-R	*422-RD	110	4.3307	320	12.5984	70	2.7559	140	5.5118

†Also available with snap-ring—type RG.

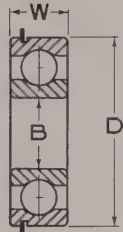
*Check for availability.

MRC BALL BEARINGS

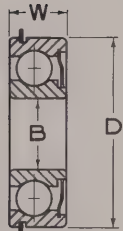
SNAP-RING TYPE G AND FG SINGLE AND DOUBLE ROW

Snap-Ring type bearings eliminate the shoulders formerly required in the housing where it is necessary to provide for taking a certain amount of thrust in both directions.

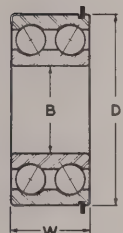
Single row bearings are available in either Super Conrad or Maximum Capacity Filling Slot Type construction, denoted by either "S" or "M" following the bearing number. Example: 205-SG identifies Snap-ring type single row Super-Conrad "S" Type. 205-MG identifies Snap-ring type single row, Maximum Capacity Filling Slot "M" Type.



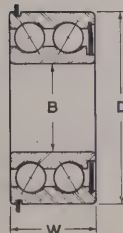
Single Row
Snap-Ring Type



Single Row
Snap-Ring
Shielded Type



Double Row
Snap-Ring Type



Double Row
Shield and
Snap-Ring Type

SINGLE ROW		DOUBLE ROW		BORE (B)		OUTSIDE DIAMETER (D)		WIDTH (W)			
								Single Row		Double Row	
								Shielded Unshielded		No Shield	Shielded
Snap Ring	Snap Ring Shielded	Snap Ring	Snap Ring Shielded	Mm	Inches	Mm	Inches	Mm	Inches	Inches	Inches
.....	200-FG	.....	.....	10	.3937	30	1.1811	9	.3543	.....	.....
201G	.....	.....	.....	12	.4724	32	1.2598	10	.3937	.....	.....
202G	202-FG	.....	.....	15	.5906	35	1.3780	11	.4331	.....	.....
203G	†203-FG	.....	.....	17	.6693	40	1.5748	12	.4724	.....	.....
204G	†204-FG	5204-KG	5204-KFG	20	.7874	47	1.8504	14	.5512	13/16	13/16
205G	†205-FG	5205-KG	.....	25	.9843	52	2.0472	15	.5906	13/16	.....
206G	†206-FG	5206-KG	5206-KFG	30	1.1811	62	2.4409	16	.6299	15/16	15/16
207G	207-FG	5207-KG	5207-KFG	35	1.3780	73	2.8346	17	.6693	1 1/16	1 1/16
208G	208-FG*	5208-KG	.....	40	1.5748	80	3.1496	18	.7087	1 3/16	.....
209G	209-FG	5209-KG	.....	45	1.7717	85	3.3465	19	.7480	1 3/16	.....
210G	†210-FG	5210-KG	.....	50	1.9685	90	3.5433	20	.7874	1 3/16	.....
211G	†211-FG	5211-KG	5211-KFG	55	2.1654	100	3.9370	21	.8268	1 5/16	1 5/16
212G	†212-FG*	5212-KG	5212-FG	60	2.3622	110	4.3307	22	.8661	1 7/16	1 1/2
213G	†213-FG	5213-KG	5213-KFG	65	2.5591	120	4.7244	23	.9055	1 1/2	1 1/2
214G	.....	5214-KG	.....	70	2.7559	125	4.9213	24	.9449	1 9/16	.....
215G	215-FG	5215-KG	5215-KFG	75	2.9528	130	5.1181	25	.9843	1 5/8	1 5/8
216G	216-FG	5216-KG	5216-KFG	80	3.1496	140	5.5118	26	1.0236	1 3/4	1 3/4
217G	.....	5217-KG	.....	85	3.3465	150	5.9055	28	1.1024	1 15/16	.....
218G	218-FG	5218-KG	.....	90	3.5433	160	6.2992	30	1.1811	2 1/16	.....
219G	.....	5219-G	.....	95	3.7402	170	6.6929	32	1.2598	2 3/16	.....
220G	.....	5220-G	.....	100	3.9370	180	7.0866	34	1.3386	2 3/8	.....
221G	.....	.....	.....	105	4.1339	190	7.4803	36	1.4173	.....	.....
222G	.....	.....	.....	110	4.3307	200	7.8740	38	1.4961	.....	.....
302G	.....	.....	.....	15	.5906	42	1.6535	13	.5118	.....	.....
303G	.....	5303-G	5303-KFG	17	.6693	47	1.8504	14	.5512	7/8	7/8
304G	.....	.....	.....	20	.7874	52	2.0472	15	.5906	.....	.....
305G	305-FG	5305-G	5305-FG	25	.9843	62	2.4409	17	.6693	1	1 1/8
306G	†306-FG	5306-G	5306-FG	30	1.1811	72	2.8346	19	.7480	1 3/16	1 5/16
307G	307-FG	5307-G	5307-FG	35	1.3780	80	3.1496	21	.8268	1 3/8	1 1/2
308G	308-FG*	5308-G	5308-FG	40	1.5748	90	3.5433	23	.9055	1 7/16	1 9/16
309G	309-FG	5309-G	5309-FG	45	1.7717	100	3.9370	25	.9843	1 9/16	1 11/16
310G	310-FG*	5310-G	5310-FG	50	1.9685	110	4.3307	27	1.0630	1 3/4	1 7/8
311G	†311-FG*	5311-G**	5311-FG	55	2.1654	120	4.7244	29	1.1417	1 15/16	2 1/16
312G	312-FG	5312-G	.....	60	2.3622	130	5.1181	31	1.2205	2 1/8	.....
313G	313-FG	5313-G	5313-FG	65	2.5591	140	5.5118	33	1.2992	2 5/16	2 7/16
314G	.....	5314-G	.....	70	2.7559	150	5.9055	35	1.3780	2 1/2	.....
.....	.....	5315-G	.....	75	2.9528	160	6.2992	.....	.....	2 11/16	.....
316G	316-FG	5316-G	.....	80	3.1496	170	6.6929	39	1.5354	2 11/16	.....
.....	320-FG	.....	.....	100	3.9370	215	8.4646	47	1.8504	.....	.....
322G	322-FG	.....	.....	110	4.3307	240	9.4488	50	1.9685	.....	.....
.....	.....	*5407-G	.....	35	1.3780	100	3.9370	.....	.....	1 3/4	.....
.....	.....	*5409-G	.....	45	1.7717	120	4.7244	.....	.....	2 1/8	.....
*410G	.....	.....	.....	50	1.9685	130	5.1181	31	1.2205	.....	.....
.....	.....	*5411-G	.....	55	2.1654	140	5.5118	.....	.....	2 1/2	.....
*412G	.....	.....	.....	60	2.3622	150	5.9055	35	1.3780	.....	.....

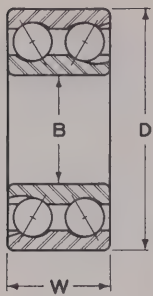
*Available with snap-ring on shield side. Use symbol G-MF or G-SF.

**Available with snap-ring in center—Part Number 5311-G-1.

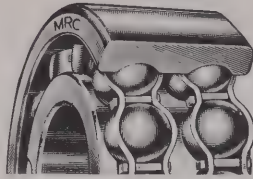
†Available with two shields.

*Check for availability.

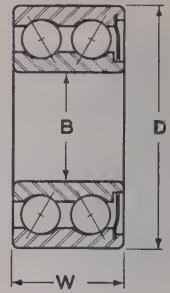
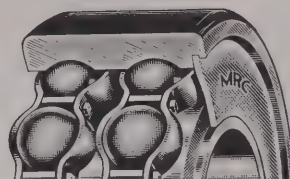
MRC BALL BEARINGS DOUBLE ROW-ANGULAR CONTACT



Double Row



SB suffix indicates
Super-Conrad type
bearing with inverted
contact angle.

Double Row
Shielded Type "F"

Standard Series	Standard Series One Shield	Old Narrow Series	Old Series One Shield	BORE (B)		OUTSIDE DIA. (D)		WIDTH (W)			
				Mm	Inches	Mm	Inches	Standard Series No Shield	Standard Series Single Shield	Old Series No Shield	Old Series Single Shield
5200-SB	†5200-SBK F			10	.3937	30	1.1811	$\frac{9}{16}$	$\frac{9}{16}$	....	....
5201-SB	†5201-SBK F			12	.4724	32	1.2598	$\frac{5}{8}$	$\frac{5}{8}$	....	....
5202-SB	5202-SBK F			15	.5906	35	1.3780	$\frac{5}{8}$	$\frac{5}{8}$	....	....
5203-SB	†5203-SBK F			17	.6693	40	1.5748	$\frac{11}{16}$	$\frac{11}{16}$	....	....
5204-SBK	†5204-SBK F			20	.7874	47	1.8504	$\frac{13}{16}$	$\frac{13}{16}$	....	....
5205-K		5205	5205-F	25	.9843	52	2.0472	$\frac{13}{16}$	....	$\frac{5}{8}$	$\frac{7}{8}$
5206-K	†5206-K F*	5206	5206-F	30	1.1811	62	2.4409	$\frac{15}{16}$	$\frac{15}{16}$	$\frac{5}{8}$	$\frac{11}{16}$
5207-K	†5207-K F	5207	5207-F	35	1.3780	72	2.8346	$\frac{11}{16}$	$\frac{11}{16}$	$\frac{7}{8}$	$\frac{11}{16}$
5208-K	†5208-K F	5208		40	1.5748	80	3.1496	$\frac{13}{16}$	$\frac{13}{16}$	1	....
5209-K	5209-K F	5209		45	1.7717	85	3.3465	$\frac{13}{16}$	$\frac{13}{16}$	1	....
5210-K	5210-K F	5210		50	1.9685	90	3.5433	$\frac{13}{16}$	$\frac{13}{16}$	1	....
5211-K	5211-K F	5211		55	2.1654	100	3.9370	$\frac{13}{16}$	$\frac{13}{16}$	$\frac{13}{16}$	....
5212-K	5212-K F	5212	5212-F	60	2.3622	110	4.3307	$\frac{13}{16}$	$\frac{13}{16}$	$\frac{13}{16}$	$\frac{11}{16}$
5213-K	5213-K F	5213		65	2.5591	120	4.7244	$\frac{13}{16}$	$\frac{13}{16}$	$\frac{13}{16}$	....
5214-K	5214-K F	5214		70	2.7559	125	4.9213	$\frac{13}{16}$	$\frac{13}{16}$	$\frac{13}{16}$	....
5215-K	5215-K F	5215		75	2.9528	130	5.1181	$\frac{13}{16}$	$\frac{13}{16}$	$\frac{13}{16}$	....
5216-K	5216-K F	5216		80	3.1496	140	5.5118	$\frac{13}{16}$	$\frac{13}{16}$	$\frac{13}{16}$	....
5217-K	5217-K F	5217		85	3.3465	150	5.9055	$\frac{13}{16}$	$\frac{13}{16}$	$\frac{13}{16}$	....
5218-K	5218-K F	5218		90	3.5433	160	6.2992	$\frac{13}{16}$	$\frac{13}{16}$	2	....
5219				95	3.7402	170	6.6929	$\frac{13}{16}$	$\frac{13}{16}$	....	....
5220				100	3.9370	180	7.0866	$\frac{13}{16}$	....	....	....
5221				105	4.1339	190	7.4803	$\frac{13}{16}$	....	....	....
5222	5222-K F			110	4.3307	200	7.8740	$\frac{13}{16}$	$\frac{13}{16}$	....	....

5300-SB	....	....	....	10	.3937	35	1.3780	$\frac{3}{4}$	....	....	....
5301-SB	....	....	....	12	.4724	37	1.4567	$\frac{3}{4}$	....	....	....
5302-SB	....	....	....	15	.5906	42	1.6535	$\frac{3}{4}$	....	....	....
5303	5303-K F	....	....	17	.6693	47	1.8504	$\frac{7}{8}$	$\frac{7}{8}$	....	....
5304	....	5304-F	....	20	.7874	52	2.0472	$\frac{7}{8}$	....	1	....
5305	....	5305-F	....	25	.9843	62	2.4409	1	....	....	$\frac{11}{16}$
5306	5306-K F	5306-F	....	30	1.1811	72	2.8346	$\frac{13}{16}$	$\frac{13}{16}$	....	$\frac{13}{16}$
5307	5307-K F	5307-F	....	35	1.3780	80	3.1496	$\frac{13}{16}$	$\frac{13}{16}$	....	$\frac{13}{16}$
5308	....	5308-F	....	40	1.5748	90	3.5433	$\frac{13}{16}$	....	....	$\frac{13}{16}$
*5309	....	5309-F	....	45	1.7717	100	3.9370	$\frac{13}{16}$	....	....	$\frac{13}{16}$
5310	5310-K F	5310-F	....	50	1.9685	110	4.3307	$\frac{13}{16}$	$\frac{13}{16}$	....	$\frac{13}{16}$
5311	....	5311-F	....	55	2.1654	120	4.7244	$\frac{13}{16}$	....	....	$\frac{13}{16}$
5312	....	5312-F	....	60	2.3622	130	5.1181	$\frac{13}{16}$	....	....	$\frac{13}{16}$
5313	....	5313-F	....	65	2.5591	140	5.5118	$\frac{13}{16}$	....	....	$\frac{13}{16}$
5314	5314-K F	5314-F	....	70	2.7559	150	5.9055	$\frac{13}{16}$	$\frac{13}{16}$	....	$\frac{13}{16}$
5315	....	5315-F	....	75	2.9528	160	6.2992	$\frac{13}{16}$	....	....	$\frac{13}{16}$
5316	....	....	....	80	3.1496	170	6.6929	$\frac{13}{16}$	....	....	....
5317	....	....	....	85	3.3465	180	7.0866	$\frac{13}{16}$	....	....	....
5318	....	....	....	90	3.5433	190	7.4803	$\frac{13}{16}$	....	....	....
5319	....	....	....	95	3.7402	200	7.8740	$\frac{13}{16}$	....	....	....
5320	....	....	....	100	3.9370	215	8.4646	$\frac{3}{4}$	....	....	....
5321	....	....	....	105	4.1339	225	8.8583	$\frac{3}{4}$	....	....	....
5322	....	....	....	110	4.3307	240	9.4488	$\frac{3}{4}$	....	....	....

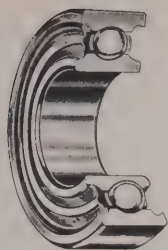
*5403	....	....	....	17	.6693	62	2.4409	$\frac{13}{16}$	....	....	....
*5404	....	....	....	20	.7874	72	2.8346	$\frac{13}{16}$	....	....	....
*5405	....	....	....	25	.9843	80	3.1496	$\frac{13}{16}$	....	....	....
*5406	....	....	....	30	1.1811	90	3.5433	$\frac{13}{16}$	....	....	....
*5407	....	....	....	35	1.3780	100	3.9370	$\frac{13}{16}$	....	....	....
*5408	....	....	....	40	1.5748	110	4.3307	$\frac{13}{16}$	....	....	....
*5409	....	....	....	45	1.7717	120	4.7244	$\frac{13}{16}$	....	....	....
*5410	*5410-F	....	....	50	1.9685	130	5.1181	$\frac{13}{16}$	$\frac{13}{16}$	....	....
*5411	*5411-F	....	....	55	2.1654	140	5.5118	$\frac{13}{16}$	$\frac{13}{16}$	....	....
*5412	....	....	....	60	2.3622	150	5.9055	$\frac{13}{16}$	....	....	....
*5413	....	....	....	65	2.5591	160	6.2992	$\frac{13}{16}$	....	....	....
*5414	....	....	....	70	2.7559	180	7.0866	$\frac{13}{16}$	....	....	....
*5415	....	....	....	75	2.9528	190	7.4803	$\frac{13}{16}$	....	....	....
*5416	....	....	....	80	3.1496	200	7.8740	$\frac{13}{16}$	....	....	....
*5417	....	....	....	85	3.3465	210	8.2677	$\frac{13}{16}$	....	....	....
*5418	....	....	....	90	3.5433	225	8.8583	$\frac{13}{16}$	....	....	....
*5419	....	....	....	95	3.7402	250	9.8425	$\frac{13}{16}$	....	....	....
*5420-R2	....	....	....	100	3.9370	265	10.4331	$\frac{13}{16}$	....	....	....

*Also available with inverted contact angle, i.e., 5206-BKFF, 5309-B.

†Available with two shields. *Check for availability.

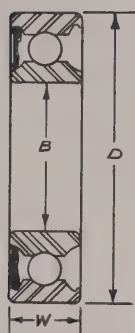
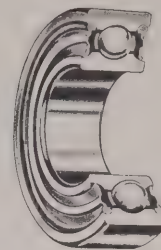
MRC BALL BEARINGS

"SYNTHE-SEAL" SERIES

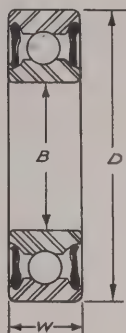


The "Synthe-Seal" provides maximum sealing efficiency with no increase in standard bearing widths.

These are standard-dimension bearings equipped with seals on one or both sides. The seals, which are removable, are made of soft synthetic rubber with a steel core for strength. The pliable synthetic rubber wiping lip is in contact with a ground curved surface on the inner race.



Type SZ
Single-Sealed



Type SZZ
Double-Sealed

BEARING NUMBER		Bore (B)	Outside Diameter (D)	Width (W)
Single Seal	Double Seal	Mm Inches	Mm Inches	Mm Inches

EXTRA SMALL—METRIC

34-Z	34-ZZ	4	.1575	16	.6299	5	.1969
35-Z	35-ZZ	5	.1969	19	.7480	6	.2362
36-Z	36-ZZ	6	.2362	19	.7480	6	.2362
‡37-Z	37-ZZ	7	.2756	22	.8661	7	.2756
38-Z	38-ZZ	8	.3150	22	.8661	7	.2756
39-Z	39-ZZ	9	.3543	26	1.0236	8	.3150

EXTRA LIGHT—METRIC

100-KSZ	100-KSZZ	10	.3937	26	1.0236	8	.3150
101-KSZ	101-KSZZ	12	.4724	28	1.1024	8	.3150
102-KSZ	§102-KSZZ	15	.5906	32	1.2598	9	.3543
103-KSZ	103-KSZZ	17	.6693	35	1.3780	10	.3937
104-KSZ	104-KSZZ	20	.7874	42	1.6535	12	.4724
105-KSZ	105-KSZZ	25	.9843	47	1.8504	12	.4724
106-KSZ	106-KSZZ	30	1.1811	55	2.1654	13	.5118
107-KSZ	107-KSZZ	35	1.3780	62	2.4409	14	.5512
**108-KSZ	§108-KSZZ	40	1.5748	68	2.6772	15	.5906
**109-KSZ	§109-KSZZ	45	1.7717	75	2.9528	16	.6299
110-KSZ	110-KSZZ	50	1.9685	80	3.1496	16	.6299
111-KSZ	111-KSZZ	55	2.1654	90	3.5433	18	.7087
.....	.....	60	2.3622	95	3.7402	18	.7087
.....	.....	65	2.5591	100	3.9370	18	.7087
114-KSZ	114-KSZZ	70	2.7559	110	4.3307	20	.7874

**Also available with snap-ring—type KSZG
§Also available with snap-ring—type KSZZG
‡Also available with shield & seal—type SFZ

BEARING NUMBER		Bore (B)	Outside Diameter (D)	Width (W)
Single Seal	Double Seal	Mm Inches	Mm Inches	Mm Inches

LIGHT—METRIC

200-SZ	200-SZZ	10	.3937	30	1.1811	9	.3543
*201-SZ	*201-SZZ	12	.4724	32	1.2598	10	.3937
*202-SZ	*202-SZZ	15	.5906	35	1.3780	11	.4331
*203-SZ	*‡203-SZZ	17	.6693	40	1.5748	12	.4724
**204-SZ	*‡204-SZZ	20	.7874	47	1.8504	14	.5512
*205-SZ	*‡205-SZZ	25	.9843	52	2.0472	15	.5906
*206-SZ	*‡206-SZZ	30	1.1811	62	2.4409	16	.6299
*207-SZ	*‡207-SZZ	35	1.3780	72	2.8346	17	.6693
208-SZ	208-SZZ	40	1.5748	80	3.1496	18	.7087
*209-SZ	*209-SZZ	45	1.7717	85	3.3465	19	.7480
210-SZ	210-SZZ	50	1.9685	90	3.5433	20	.7874
211-SZ	211-SZZ	55	2.1654	100	3.9370	21	.8268
212-SZ	212-SZZ	60	2.3622	110	4.3307	22	.8661
213-SZ	213-SZZ	65	2.5591	120	4.7244	23	.9055
*214-SZ	*214-SZZ	70	2.7559	125	4.9213	24	.9449
215-SZ	215-SZZ	75	2.9528	130	5.1181	25	.9843
216-SZ	216-SZZ	80	3.1496	140	5.5118	26	1.0236
217-SZ	217-SZZ	85	3.3465	150	5.9055	28	1.1024
219-SZ	219-SZZ	95	3.7402	170	6.6929	32	1.2598

MEDIUM—METRIC

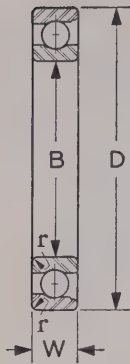
300-SZ	300-SZZ	10	.3937	35	1.3780	11	.4331
301-SZ	301-SZZ	12	.4724	37	1.4567	12	.4724
302-SZ	302-SZZ	15	.5906	42	1.6535	13	.5118
303-SZ	303-SZZ	17	.6693	47	1.8504	14	.5512
304-SZ	*‡304-SZZ	20	.7874	52	2.0472	15	.5906
305-SZ	‡305-SZZ	25	.9843	62	2.4409	17	.6693
*306-SZ	*306-SZZ	30	1.1811	72	2.8346	19	.7480
*307-SZ	*‡307-SZZ	35	1.3780	80	3.1496	21	.8268
*308-SZ	308-SZZ	40	1.5748	90	3.5433	23	.9055
*309-SZ	*309-SZZ	45	1.7717	100	3.9370	25	.9843
*310-SZ	*310-SZZ	50	1.9685	110	4.3307	27	1.0630
311-SZ	311-SZZ	55	2.1654	120	4.7244	29	1.1417
312-SZ	312-SZZ	60	2.3622	130	5.1181	31	1.2205

*Also available in G-SZ type (snap-ring on seal side).
‡Also available with shield, seal & snap-ring—type SFZG.
*Also available with snap-ring. Add suffix G.

NEED HELP ON BEARINGS—CALL US

MRC BALL BEARINGS**EXTREMELY-LIGHT
INCH-SIZE****Radial Type XLS**

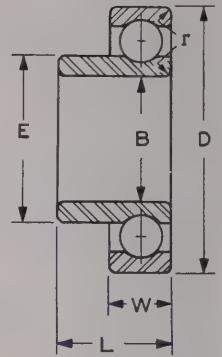
This bearing has the same design as that of the regular type R, with counterbored outer ring and one-piece solid cage. It is recommended for extremely light duty and where space is limited.

**WIDE-INNER
SERIES**

The Single-Row Wide-Inner Bearing is made in two different types depending on the size:

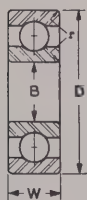
- (1) Type WI, Maximum Capacity type.
- (2) Type SWI, Super-Conrad type.

The outer ring and ball cage assembly is the same as the single-row type but the inner ring has the same width of that of the double-row type. The additional width of the inner ring permits the bearing to be used without a lock nut.



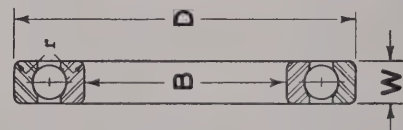
Bearing Number	Bore (B) Inches	Outside Diameter (D) Inches	Width (W) Inches
XLS-1 $\frac{1}{8}$	1.3750	2.5625	.5625
XLS-1 $\frac{1}{2}$	1.5000	2.6875	.5625
XLS-1 $\frac{3}{8}$	1.6250	2.8750	.5625
XLS-1 $\frac{1}{4}$	1.7500	3.0000	.5625
XLS-1 $\frac{3}{4}$	1.8750	3.1875	.625
XLS-2	2.0000	3.3125	.625
XLS-2 $\frac{1}{8}$	2.1250	3.4375	.625
XLS-2 $\frac{1}{4}$	2.2500	3.5625	.625
*XLS-2 $\frac{3}{4}$	2.5000	3.8750	.6875
XLS-2 $\frac{5}{8}$	2.6250	4.1250	.6875
XLS-2 $\frac{3}{4}$	2.7500	4.1250	.6875
XLS-3	3.0000	4.5000	.750
XLS-3 $\frac{1}{4}$	3.2500	4.7500	.750
XLS-3 $\frac{1}{2}$	3.5000	5.0000	.750
XLS-3 $\frac{3}{4}$	3.7500	5.2500	.750
XLS-4 $\frac{1}{4}$	4.2500	6.0000	.875
XLS-4 $\frac{1}{2}$	4.5000	6.2500	.875
XLS-4 $\frac{3}{4}$	4.7500	6.5000	.875
XLS-5	5.0000	7.0000	1.000
XLS-5 $\frac{1}{2}$	5.5000	7.5000	1.000
XLS-6	6.0000	8.0000	1.000
XLS-6 $\frac{1}{4}$	6.2500	8.5000	1.125
XLS-6 $\frac{3}{4}$	6.5000	8.7500	1.125
XLS-7	7.0000	9.5000	1.250
XLS-7 $\frac{1}{4}$	7.2500	9.7500	1.250
XLS-7 $\frac{1}{2}$	7.5000	10.0000	1.250
XLS-7 $\frac{3}{4}$	7.7500	10.5000	1.375
XLS-8	8.0000	10.7500	1.375
XLS-8 $\frac{1}{4}$	8.2500	11.0000	1.375
XLS-8 $\frac{3}{4}$	8.5000	11.5000	1.500
XLS-9	9.0000	12.0000	1.500
XLS-10	10.0000	13.2500	1.625

*Also available as Super Conrad Type, XLS-2 $\frac{1}{2}$ -S.

**EXTRA SMALL-METRIC**
With and without Shields

Bearing Number			Bore (B)		Outside Diameter (D)		Width (W) Plain or Shielded	
No Shield	One Shield	Two Shields	Mm	Inches	Mm	Inches	Mm	Inches
34	34F	34FF	4	.1575	16	.6299	5	.1969
35	35F	35FF	5	.1969	19	.7480	6	.2362
36	36F	36FF	6	.2362	19	.7480	6	.2362
37	37F	37FF	7	.2756	22	.8661	7	.2756
38	38F	38FF	8	.3150	22	.8661	7	.2756
39	39F	39FF	9	.3543	26	1.0236	8	.3150

Bearing Number	(B) Inches	(D) Inches	(W) Inches	(L) Inches	(E) Inches
305-SWI	.9843	2.4409	.6693	1	1.499
306-SWI	1.1811	2.8346	.7480	1 $\frac{1}{8}$	1.698
307-SWI	1.3780	3.1496	.8268	1 $\frac{3}{8}$	1.917
308-WI	1.5748	3.5433	.9055	1 $\frac{7}{8}$	2.232
309-SWI	1.7717	3.9370	.9843	1 $\frac{9}{16}$	2.405
310-SWI	1.9685	4.3307	1.0630	1 $\frac{5}{8}$	2.659
311-SWI	2.1654	4.7244	1.1417	1 $\frac{15}{16}$	2.915
311-WI	2.1654	4.7244	1.1417	1 $\frac{15}{16}$	2.915
312-WI	2.3622	5.1181	1.2205	2 $\frac{1}{8}$	3.114
313-SWI	2.5591	5.5118	1.2992	2 $\frac{5}{8}$	3.361
314-WI	2.7559	5.9055	1.3780	2 $\frac{3}{4}$	3.719
315-WI	2.9528	6.2992	1.4567	2 $\frac{11}{16}$	3.976
316-WI	3.1496	6.6929	1.5354	2 $\frac{11}{16}$	4.282
318-WI	3.5433	7.4803	1.6929	2 $\frac{7}{8}$	4.760
320-SWI	3.9370	8.4646	1.8504	3 $\frac{1}{4}$	5.210

**MRC NARROW TYPE
TYPE S (SUPER CONRAD) AND
TYPE M (MAXIMUM CAPACITY)**

These bearings have their own system of designation of sizes, and bore numbers do not necessarily agree with those in the standard series.

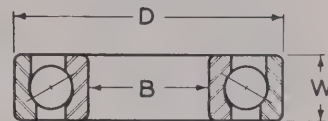
Bearing Number	DIMENSIONS					
	BORE (B)		OUTSIDE DIA. (D)		WIDTH (W)	
	Mm	Inches	Mm	Inches	Mm	Inches
102-S	10	.3937	32	1.2598	9	.3543
103-S	15	.5906	37	1.4567	9	.3543
103-SH	15	.5906	37	1.4567	10	.3937
104-S	20	.7874	42	1.6535	9	.3543
104-SH	20	.7874	42	1.6535	10	.3937
105-S	25	.9843	52	2.0472	9	.3543
105-SH	25	.9843	52	2.0472	10	.3937
106-S	30	1.1811	62	2.4409	10	.3937
107-S	35	1.3780	70	2.7559	10	.3937
108-S	40	1.5748	80	3.1496	11	.4331
109-S	45	1.7717	85	3.3465	11	.4331
110-M	50	1.9685	90	3.5433	11	.4331
111-S	55	2.1654	100	3.9370	12	.4724
112-S	60	2.3622	105	4.1339	12	.4724
113-S	65	2.5591	115	4.5276	14	.5512
114-S	70	2.7559	120	4.7244	14	.5512
115-S	75	2.9528	130	5.1181	16	.6299
116-S	80	3.1496	135	5.3150	16	.6299
117-M	85	3.3465	145	5.7087	18	.7087
118-M	90	3.5433	150	5.9055	18	.7087
119-S	95	3.7402	160	6.2992	20	.7874
120-S	100	3.9370	165	6.4961	20	.7874
120-R	100	3.9370	160	6.2992	28	1.1024
121-S	105	4.1339	180	7.0866	22	.8661
*122-S	110	4.3307	185	7.2835	22	.8661

*Not interchangeable with 122-R.

MRC BALL BEARINGS EXTRA LIGHT RADIAL AND ANGULAR CONTACT



100-KR and 7100-KR Series are also available with flush ground faces for duplex mounting.



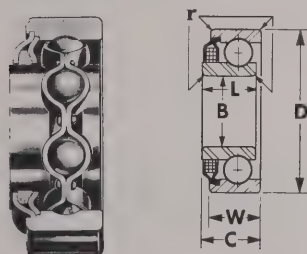
SINGLE BEARING

Radial Type KS	KSF One Shield	KSFF Two Shields	Radial Type KR	Angular Contact Type	BORE (B)		OUTSIDE DIA. (D)		WIDTH (W)			
									Single Bearing		Duplex Bearing	
					Mm	Inches	Mm	Inches	Mm	Inches	Mm	Inches
100-KS	100-KSF	†100-KSFF	100-KR	7100-KR	10	.3937	26	1.0236	8	.3150	16	.6299
101-KS	101-KSF	101-KSFF	101-KR	7101-KR	12	.4724	28	1.1024	8	.3150	16	.6299
102-KS	102-KSF	•102-KSFF	102-KR	7102-KR	15	.5906	32	1.2598	9	.3543	18	.7087
103-KS	103-KSF	103-KSFF	103-KR	7103-KR	17	.6693	35	1.3780	10	.3937	20	.7874
104-KS	104-KSF	†104-KSFF	104-KR	7104-KR	20	.7874	42	1.6535	12	.4724	24	.9449
105-KS	105-KSF	†105-KSFF	105-KR	7105-KR	25	.9843	47	1.8504	12	.4724	24	.9449
106-KS	106-KSF	106-KSFF	106-KR	7106-KR	30	1.1811	55	2.1654	13	.5118	26	1.0236
107-KS	107-KSF	107-KSFF	107-KR	7107-KR	35	1.3780	62	2.4409	14	.5512	28	1.1024
108-KS	108-KSF	108-KSFF	108-KR	7108-KR	40	1.5748	68	2.6772	15	.5906	30	1.1811
109-KS	109-KSF	109-KSFF	109-KR	7109-KR	45	1.7717	75	2.9528	16	.6299	32	1.2598
110-KS	110-KSF	110-KSFF	110-KR	7110-KR	50	1.9685	80	3.1496	16	.6299	32	1.2598
111-KS	111-KSF	111-KSFF	111-KR	7111-KR	55	2.1654	90	3.5433	18	.7087	36	1.4173
112-KS	.....	.....	112-KR	7112-KR	60	2.3622	95	3.7402	18	.7087	36	1.4173
113-KS	.....	.....	113-KR	7113-KR	65	2.5591	100	3.9370	18	.7087	36	1.4173
114-KS	114-KSF	114-KSFF	•114-KR	7114-KR	70	2.7559	110	4.3307	20	.7874	40	1.5748
115-KS	.....	.....	115-KR	7115-KR	75	2.9528	115	4.5276	20	.7874	40	1.5748
116-KS	.....	.....	116-KR	7116-KR	80	3.1496	125	4.9213	22	.8661	44	1.7323
117-KS	117-KSF	.....	117-KR	7117-KR	85	3.3465	130	5.1181	22	.8661	44	1.7323
118-KS	118-KSF	118-KSFF	118-KR	7118-KR	90	3.5433	140	5.5118	24	.9449	48	1.8898
120-KS	120-KSF	120-KSFF	120-KR	7120-KR	100	3.9370	150	5.9055	24	.9449	48	1.8898
.....	.....	.....	121-KR	7121-KR	105	4.1339	160	6.2992	26	1.0236	52	2.0472
122-KS	122-KSF	122-KSFF	122-KR	7122-KR	110	4.3307	170	6.6929	28	1.1024	56	2.2047
124-KS	124-KSF	124-KSFF	124-KR	7124-KR	120	4.7244	180	7.0866	28	1.1024	56	2.2047
126-KS	.....	.....	126-KR	7126-KR	130	5.1181	200	7.8740	33	1.2992	66	2.5984
.....	.....	.....	128-KR	7128-KR	140	5.5118	210	8.2677	33	1.2992	66	2.5984
.....	.....	.....	130-KR	7130-KR	150	5.9055	225	8.8583	35	1.3780	70	2.7559
.....	.....	.....	134-KR	7134-KR	170	6.6929	260	10.2362	42	1.6535	84	3.3071
136-KS	.....	.....	136-KR	7136-KR	180	7.0866	280	11.0236	46	1.8110	92	3.6220
.....	.....	.....	138-KR	7138-KR	190	7.4803	290	11.4173	46	1.8110	92	3.6220

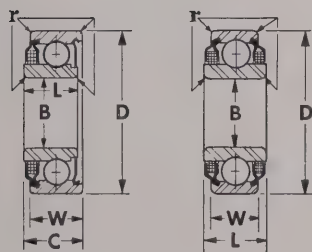
†Also available with shield and seal—type KSFZ.

•Also available with snap-ring. Add suffix G.

FABRI-SEAL BEARINGS



FS



FSF

FFS

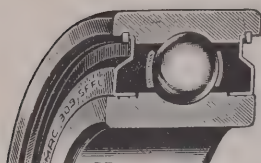
The Fabri-Seal Bearing is equipped with a seal consisting of a sealing ring and two pressed steel retaining members. This bearing is of particular advantage in small electric motors. It can be used on a vertical shaft to hold grease if the operating temperature is not high enough to liquefy the grease.

BEARING NUMBERS			BORE (B)		O.D. (D)			WIDTH in Inches		
One Seal FS	Seal & Shield FSF	Two Seals FFS								
			MM	Inch	MM	Inch		W	C	L
36-FS	36-FSF	.....	6	.2362	19	.7480		.315	.406	.386
37-FS-1	37-FSF-1	36-FFS-1	6	.2362	24	.9449		.315	.....	.497
.....	.....	37-FFS	7	.2756	24	.9449		.315	.406	.386
.....	.....	.....	7	.2756	22	.8661		.315	.....	.497
.....	.....	38-FSF	8	.3150	22	.8661		.315	.406	.386
.....	.....	38-FFS	8	.3150	22	.8661		.315	.....	.497
38-FS-1	38-FSF-1	.....	8	.3150	24	.9449		.315	.406	.386
.....	39-FSF	.....	9	.3543	26	1.0236		.315	.406	.386
200-FS	200-FSF	.....	10	.3937	30	1.1811		.354	.500	.480
.....	.....	200-FFS	10	.3937	30	1.1811		.354	.....	.646
201-FS	201-FSF	.....	12	.4724	32	1.2598		.394	.500	.480
.....	.....	201-FFS	12	.4724	32	1.2598		.394	.....	.606
202-FS	202-FSF	.....	15	.5906	35	1.3780		.433	.500	.480
202-FS-1	.....	.....	14	.5512	35	1.3780		.433	.500	.480
.....	.....	202-FFS	15	.5906	35	1.3780		.433	.....	.567
202-FS-3	202-FSF-4	.....	16	.6299	35	1.3780		.433	.500	.480
202-FS-5	.....	.....	15	.5906	35	1.3780		.485	.500	.480
203-FS	203-FSF	.....	17	.6693	40	1.5748		.472	.563	.538
.....	.....	203-FFS	17	.6693	40	1.5748		.472	.....	.654
204-FS	.....	.....	20	.7874	47	1.8504		.610	.625	.600
204-FS-2	204-FSF	.....	20	.7874	47	1.8504		.551	.625	.600
.....	.....	204-FFS	20	.7874	47	1.8504		.551	.....	.699
205-FS	205-FSF	.....	25	.9843	52	2.0472		.591	.625	.600
.....	.....	205-FFS	25	.9843	52	2.0472		.591	.....	.659
205-FS-3	.....	.....	26	1.0236	52	2.0472		.591	.625	.600
206-FS	206-FSF	.....	30	1.1811	62	2.4409		.630	.787	.748
.....	.....	206-FFS	30	1.1811	62	2.4409		.630	.....	.945
207-FS	207-FSF	.....	35	1.3780	72	2.8346		.669	.827	.787
.....	.....	207-FFS	35	1.3780	72	2.8346		.669	.....	.984
.....	.....	†207-FFS-7	35	1.3780	72	2.8346		.669	.....	.984
208-FS	208-FSF	.....	40	1.5748	80	3.1496		.827	.945	.945
.....	.....	208-FFS	40	1.5748	80	3.1496		.827	.....	1.063
.....	.....	209-FFS	45	1.7717	85	3.3465		.827	.....	1.063
303-FS	.....	.....	17	.6693	47	1.8504		.551	.630	.591

†Bearing has greater internal looseness and race curvature.

MRC BALL BEARINGS

SEALED CARTRIDGE TYPE



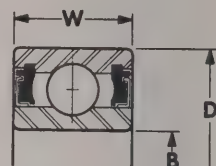
SFFC Type

Presently available in three types: SRRC with Labri-Seal; SFFC, shielded and SZZC with Synthe-Seal. Type SRRC preferred since it has most effective seal with minimum seal drag and requires no relubrication. As production warrants, additional sizes will be available in the SRRC type.

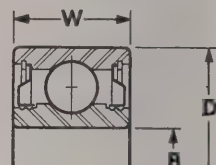
M-R-C BRG. NOS.			DIMENSIONS							
SRRC Labri- Sealed	SFFC Shielded	SZZC Sealed	B Bore		Tol. + .0000	D Outside Diameter		Tol. + .0000	W Width + .000 - .005 Inches	Cor. Rad. *
			M/M	Inches		M/M	Inches			
.....	.....	202-SZZC	15	.5906	-.0003	35	1.3780	-.0005	$\frac{5}{16}$	.025
.....	.....	203-SZZC	17	.6693	-.0003	40	1.5748	-.0005	$\frac{11}{16}$	.025
.....	204-SFFC	204-SZZC	20	.7874	-.0004	47	1.8504	-.0005	$\frac{13}{16}$	.04
.....										
.....	205-SFFC	205-SZZC	25	.9843	-.0004	52	2.0472	-.0005	$\frac{13}{16}$	.04
206-SRRC	†206-SFFC	206-SZZC	30	1.1811	-.0004	62	2.4409	-.0005	$\frac{15}{16}$	.04
207-SRRC	207-SFFC	.....	35	1.3780	-.0005	72	2.8346	-.0005	$1 \frac{1}{16}$	.04
.....										
208-SRRC	208-SFFC	.....	40	1.5748	-.0005	80	3.1496	-.0005	$1 \frac{3}{16}$	.04
209-SRRC	209-SFFC	.....	45	1.7717	-.0005	85	3.3465	-.0006	$1 \frac{5}{16}$	.04
.....	210-SFFC	.....	50	1.9685	-.0005	90	3.5433	-.0006	$1 \frac{7}{16}$	.04
.....										
.....	213-SFFC	.....	65	2.5591	-.0006	120	4.7244	-.0006	$1 \frac{1}{2}$	.06
.....	216-SFFC	.....	80	3.1496	-.0006	140	5.5118	-.0008	$1 \frac{3}{4}$	.08
.....	304-SFFC	304-SZZC	20	.7874	-.0004	52	2.0472	-.0005	$\frac{7}{8}$	.04
.....										
.....	305-SFFC	.....	25	.9843	-.0004	62	2.4409	-.0005	1	.04
306-SRRC	306-SFFC	306-SZZC	30	1.1811	-.0004	72	2.8346	-.0005	$1 \frac{3}{16}$	.04
.....	307-SFFC	.....	35	1.3780	-.0005	80	3.1496	-.0005	$1 \frac{5}{8}$	.06
.....										
.....	308-SFFC	.....	40	1.5748	-.0005	90	3.5433	-.0006	$1 \frac{7}{16}$	.06
309-SRRC	309-SFFC	.....	45	1.7717	-.0005	100	3.9370	-.0006	$1 \frac{9}{16}$	.06
.....	310-SFFC	.....	50	1.9685	-.0005	110	4.3307	-.0006	$1 \frac{3}{4}$	.08
.....										
311-SRRC	311-SFFC	.....	55	2.1654	-.0006	120	4.7244	-.0006	$1 \frac{5}{8}$	.08
312-SRRC	312-SFFC	.....	60	2.3622	-.0006	130	5.1181	-.0008	$2 \frac{1}{8}$	.08
.....	313-SFFC	.....	65	2.5591	-.0006	140	5.5118	-.0008	$2 \frac{5}{16}$	.08
.....										
.....	314-SFFC	.....	70	2.7559	-.0006	150	5.9055	-.0008	$2 \frac{1}{2}$	.08
.....	315-SFFC	.....	75	2.9528	-.0006	160	6.2992	-.0010	$2 \frac{11}{16}$	.08
.....	318-SFFC	.....	90	3.5433	-.0008	190	7.4803	-.0012	$2 \frac{7}{8}$	.10
.....										

*Cor. Rad. indicates maximum fillet radius on shaft or in housing which bearing radius will clear.

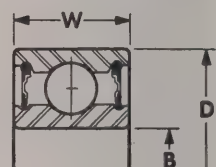
†Also available in snap-ring type 206-SFFCG.



SRRC (Labri-Sealed)



SFFC (Shielded)



SZZC (Sealed)

INCH TYPE SERIES

PLAIN—SHIELDED—SEALED



Some sizes also available with all-metal stainless steel removable shields, designated with suffix FM (single) or FFM (double).

BEARING NUMBER					BORE	OUTSIDE DIAMETER	WIDTH		
Plain	F One Shield	FF Two Shields	Z One Seal	ZZ Two Seals			Plain	Shielded	Sealed
□R-1½	*R-1½-F	R-1½-FF	.....	.....	.0937	.3125	.1094	.1406	.....
□R-2-5	*R-2-5-F	R-2-5-FF	.....	.....	.1250	.3125	.1094	.1406	.....
†R-2	††R-2-F	††R-2-FF	.....	.....	.1250	.3750	.1562	.1562	.....
†R-2-A	††R-2-AF	††R-2-AFF	.....	.....	.1250	.5000	.1719	.1719	.....
†R-3	††R-3-F	††R-3-FF	R-3-Z	R-3-ZZ	.1875	.5000	.1562	.1960	.1960
†R-4	††R-4-F	††R-4-FF	R-4-Z	R-4-ZZ	.2500	.6250	.1960	.1960	.1960
R-4-A4	R-4-AF4	R-4-AFF4	.....	.....	.2500	.7500	.2187	.2812	.3438
†R-6	†R-6-F	†R-6-FF	R-6-Z	R-6-ZZ	.3750	.8750	.2187	.2812	.2812
†R-8	†R-8-F	†R-8-FF	R-8-Z	R-8-ZZ	.5000	1.1250	.2500	.3125	.3125
R-10	R-10-F	R-10-FF	R-10-Z	R-10-ZZ	.6250	1.3750	.2812	.3438	.3438
R-12	R-12-F	R-12-FF	R-12-Z	R-12-ZZ	.7500	1.6250	.3125	.4375	.4375
R-14	R-14-F	R-14-FF	.....	.....	.8750	1.8750	.3750	.5000	.....
R-16	R-16-F	R-16-FF	R-16-Z	R-16-ZZ	1.0000	2.0000	.3750	.5000	.5000
R-18	R-18-F	R-18-FF	.....	.....	1.1250	2.1250	.3750	.5000	.....
R-20	R-20-F	R-20-FF	R-20-Z	R-20-ZZ	1.2500	2.2500	.3750	.5000	.5000

□Available in ABEC-5 Super-Precision only.

†Also made in stainless steel—bearing number contains suffix ST.

††Equipped with removable rubber-beaded shields.

*Also available with removable rubber-beaded shields.

NEED HELP ON BEARINGS—CALL US



1900-S



1900-R

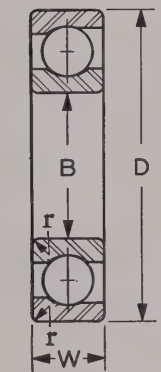
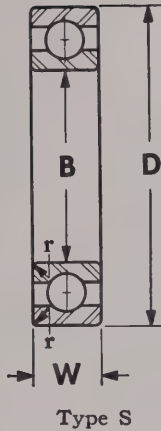
MRC BALL BEARINGS

EXTREMELY-LIGHT SINGLE ROW

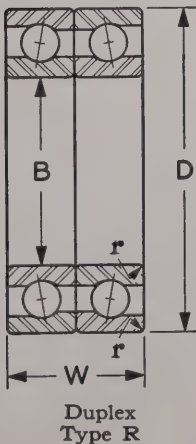
TYPE S AND TYPE R—RADIAL

Made with unusually light section for applications where lack of space or weight limitations will not permit a heavier bearing. Made in two types, the Super-Conrad (type S) and the radial (type R). Type R is also furnished duplex ground for installation in pairs.

This is a new series—check availability before ordering.



Radial Type "R"
Series
Can be furnished
in Duplex Pairs



S Series Single Bearing No.	R Series Single Bearing No.	RD Duplex Series DB, DF, DT	BORE (B)		Outside Diameter (D)		WIDTH (W)			
							Single Bearing TYPE S TYPE R		DUPLEX RD SERIES	
			Mm	Inches	Mm	Inches	Mm	Inches	Mm	Inches
1900-S	1900-R	1900-RD	10	.3937	22	.8661	6	.2362	12	.4724
1901-S	1901-R	1901-RD	12	.4724	24	.9449	6	.2362	12	.4724
1902-S	1902-R	1902-RD	15	.5906	28	1.1024	7	.2756	14	.5512
1903-S	1903-R	1903-RD	17	.6693	30	1.1811	7	.2756	14	.5512
1904-S	1904-R	1904-RD	20	.7874	37	1.4567	9	.3543	18	.7087
1905-S	1905-R	1905-RD	25	.9843	42	1.6535	9	.3543	18	.7087
1906-S	1906-R	1906-RD	30	1.1811	47	1.8504	9	.3543	18	.7087
1907-S	1907-R	1907-RD	35	1.3780	55	2.1654	10	.3937	20	.7874
1908-S	1908-R	1908-RD	40	1.5748	62	2.4409	12	.4724	24	.9449
1909-S	1909-R	1909-RD	45	1.7717	68	2.6772	12	.4724	24	.9449
1910-S	1910-R	1910-RD	50	1.9685	72	2.8346	12	.4724	24	.9449
1911-S	1911-R	1911-RD	55	2.1654	80	3.1496	13	.5118	26	1.0236
1912-S	1912-R	1912-RD	60	2.3622	85	3.3465	13	.5118	26	1.0236
1913-S	1913-R	1913-RD	65	2.5591	90	3.5433	13	.5118	26	1.0236
1914-S	1914-R	1914-RD	70	2.7559	100	3.9370	16	.6299	32	1.2598
1915-S	1915-R	1915-RD	75	2.9528	105	4.1339	16	.6299	32	1.2598
1916-S	1916-R	1916-RD	80	3.1496	110	4.3307	16	.6299	32	1.2598
1917-S	1917-R	1917-RD	85	3.3465	120	4.7244	18	.7087	36	1.4173
1918-S	1918-R	1918-RD	90	3.5433	125	4.9213	18	.7087	36	1.4173
1919-S	1919-R	1919-RD	95	3.7402	130	5.1181	18	.7087	36	1.4173
1920-S	1920-R	1920-RD	100	3.9370	140	5.5118	20	.7874	40	1.5748
1921-S	1921-R	1921-RD	105	4.1339	145	5.7087	20	.7874	40	1.5748
1922-S	1922-R	1922-RD	110	4.3307	150	5.9055	20	.7874	40	1.5748
1924-S	1924-R	1924-RD	120	4.7244	165	6.4961	22	.8661	44	1.7323
1926-S	1926-R	1926-RD	130	5.1181	180	7.0866	24	.9449	48	1.8898
1928-S	1928-R	1928-RD	140	5.5118	190	7.4803	24	.9449	48	1.8898
1930-S	1930-R	1930-RD	150	5.9055	210	8.2677	28	1.1024	56	2.2047
1932-S	1932-R	1932-RD	160	6.2992	220	8.6614	28	1.1024	56	2.2047
1934-S	1934-R	1934-RD	170	6.6929	230	9.0551	28	1.1024	56	2.2047
1936-S	1936-R	1936-RD	180	7.0866	250	9.8425	33	1.2992	66	2.5984
1938-S	1938-R	1938-RD	190	7.4803	260	10.2362	33	1.2992	66	2.5984
1940-S	1940-R	1940-RD	200	7.8740	280	11.0236	38	1.4961	76	2.9921

MPB**MINIATURE PRECISION BEARINGS****MINA**

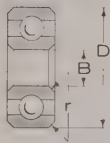
Standard MPB Precision Radial Retainer, Extended Inner Ring and High Speed Bearings, except SR Series, are made to MPB "basic 7" precision (ABEC-7 tolerances with ABEC-5 bore). Consult us for specific tolerances on all other series and types and for availability of other precision classes.

ACTUAL SIZES

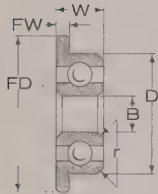
Standard material for rings and balls: AISI 440C stainless steel; retainers: 410 stainless steel. Most sizes are also available in SAE 52100 chrome alloy steel and many sizes in beryllium copper.

MPB RADIAL BEARINGS

← W →

**RADIAL SERIES****SINGLE SHIELD****DOUBLE SHIELD**

BEARING NUMBER				Bore + .0000 — .0002	O.D. + .0000 — .0002	WIDTH + .000 — .001			Flange O.D.	Flange Thickness	
FULL TYPE	RETAINER TYPE					No Shields	Single Shield	Double Shield		Open	Shielded
	No Shields	Single Shield	Double Shield								
S100				.0250	.1000	.0312					
S2	S2C			.0400	.1250	.0469					
S2½	S2½C	S2½CH	S2½CHH	.0469	.1562	.0625	.0937	.0937			
S3	S3C	S3CH	S3CHH	.0550	.1875	.0781	.0937	.1094			
S4	S4C	S4CH	S4CHH	.0781	.2500	.0937	.1094	.1406			
S3332	S3332C			.0937	.1875	.0625					
S5	S5C	S5CH	S5CHH	.0937	.3125	.1094	.1094	.1406			
S418	S418C	S418CH	S418CHH	.1250	.2500	.0937	.0937	.1094			
S518	S518C	S518CH	S518CHH	.1250	.3125	.1094	.1094	.1406			
S618	S618C	S618CH	S618CHH	.1250	.3750	.1094	.1094	.1406			
SR2	SR2C	SR2CH	SR2CHH	.1250	.3750	.1562	.1562	.1562			
SR2A	SR2AC	SR2ACH	SR2ACHH	.1250	.5000	.1719	.1719	.1719			
S5532	S5532C	S5532CH	S5532CHH	.1562	.3125	.1094	.1094	.1250			
S5632	S5632C	S5632CH	S5632CHH	.1875	.3125	.1094	.1094	.1250			
S6632	S6632C	S6632CH	S6632CHH	.1875	.3750	.1250	.1250	.1250			
SR3	*SR3R	*SR3RH	*SR3RHH	.1875	.5000	.1562	.1960	.1960			
S614	S614C	S614CH	S614CHH	.2500	.3750	.1250	.1250	.1250			
S814	S814C	S814CH	S814CHH	.2500	.5000	.1250	.1250	.1875			
SR4	*SR4R	*SR4RH	*SR4RHH	.2500	.6250	.1960	.1960	.1960			
S8516	*S8516R	*S8516RH	*S8516RHH	.3125	.5000	.1562	.1562	.1562			

MPB FLANGED RADIAL BEARINGS**FLANGED RADIAL SERIES****SINGLE SHIELD****DOUBLE SHIELD**

S2F	S2FC	S2½FCH	S2½FCHH	.0400	.1250	.0469			.171	.013	
S2½F	S2½FC	S2½FCH	S2½FCHH	.0469	.1562	.0625	.0937	.0937	.203	.013	.031
S3F	S3FC	S3FCH	S3FCHH	.0550	.1875	.0781	.1094	.1094	.234	.023	.031
S4F	S4FC	S4FCH	S4FCHH	.0781	.2500	.0937	.1406	.1406	.296	.023	.031
S3332F	S3332FC			.0937	.1875	.0625			.234	.018	
S5F	S5FC	S5FCH	S5FCHH	.0937	.3125	.1094	.1406	.1406	.359	.023	.031
S418F	S418FC	S418FCH	S418FCHH	.1250	.2500	.0937	.1094	.1094	.296	.023	.031
S518F	S518FC	S518FCH	S518FCHH	.1250	.3125	.1094	.1406	.1406	.359	.023	.031
S618F	S618FC	S618FCH	S618FCHH	.1250	.3750	.1094	.1406	.1406	.422	.023	.031
SR2F	SR2FC	SR2FCH	SR2FCHH	.1250	.3750	.1562	.1562	.1562	.440	.030	.030
S5532F	S5532FC	S5532FCH	S5532FCHH	.1562	.3125	.1094	.1250	.1250	.359	.023	.036
S5632F	S5632FC	S5632FCH	S5632FCHH	.1875	.3125	.1094	.1250	.1250	.359	.023	.036
S6632F	S6632FC	S6632FCH	S6632FCHH	.1875	.3750	.1250	.1250	.1250	.422	.023	.031
SR3F	*SR3FR	*SR3FRH	*SR3FRHH	.1875	.5000	.1562	.1960	.1960	.565	.042	.042
S614F	S614FC	S614FCH	S614FCHH	.2500	.3750	.1250	.1250	.1250	.422	.023	.036
S814F	S814FC	S814FCH	S814FCHH	.2500	.5000	.1250	.1875	.1875	.547	.023	.045
SR4F	*SR4FR	*SR4FRH	*SR4FRHH	.2500	.6250	.1960	.1960	.1960	.690	.042	.042
S8516F	*S8516FR	*S8516FRH	*S8516FRHH	.3125	.5000	.1562	.1562	.1562	.547	.031	.031

*Suffix "R" denotes two-piece ribbon type retainer and is standard on these sizes.

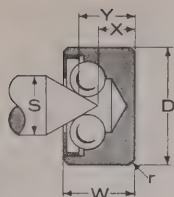
MPB M AND FM HIGH SPEED BEARINGS — With Linen-Base Phenolic Ball Retainer

M Angular Contact Design				FM Angular Contact Design				BOUNDARY DIMENSIONS					
BEARING NUMBER													
								Bore +.0000 -.0002	O.D. +.0000 -.0002	Width +.000 -.001	Flange O.D.	Flange Width	
Type "M" NON-SEPARABLE	Type "MC" NON-SEPARABLE	Type "MA" SEPARABLE OUTER	Type "MB" SEPARABLE INNER	Type "FM" NON-SEPARABLE	Type "FMC" NON-SEPARABLE	Type "FMA" SEPARABLE OUTER	Type "FMB" SEPARABLE INNER						
S3M	S4564M	S3MA	S3MB	S3FM	S4564FMC	S3FMA	S3FMB	.0550	.1875	.0781	.234	.023	
S4564M	S5MC	S4564MA	S4564MB	S4564FM	S5FMC	S4564FMA	S4564FMB	.0781	.2500	.0937	.296	.023	
S5M	S418M	S5MA	S5MB	S5FM	S418FMC	S5FMA	S5FMB	.0937	.3125	.1094	.359	.023	
S418M	S518M	S418MA	S418MB	S418FM	S518FMC	S418FMA	S418FMB	.1250	.2500	.0937	.296	.023	
S518M	S618M	S518MA	S518MB	S518FM	S618FMC	S518FMA	S518FMB	.1250	.3125	.1094	.359	.023	
S618M	SR2M	S618MA	S618MB	S618FM	SR2FMC	S618FMA	S618FMB	.1250	.3750	.1094	.422	.023	
SR2M		SR2MA	SR2MB	SR2FM		SR2FMA	SR2FMB	.1250	.3750	.1562	.440	.030	
S5632M	S5632MC	S5632MA	S5632MB	S5632FM	S5632FMC	S5632FMA	S5632FMB	.1875	.3125	.1094	.359	.023	
SR3M	SR3MC	SR3MA	SR3MB	SR3FM	SR3FMC	SR3FMA	SR3FMB	.1875	.5000	.1562	.565	.042	
S614M	S614MC	S614MA	S614MB	S614FM	S614FMC	S614FMA	S614FMB	.2500	.3750	.1250	.422	.023	
S814M	SR4MC	S814MA	S814MB	S814FM	SR4FMC	S814FMA	S814FMB	.2500	.5000	.1250	.547	.023	
SR4M	SR4MC	SR4MA	SR4MB	SR4FM	SR4FMC	SR4FMA	SR4FMB	.2500	.6250	.1960	.690	.042	
S8516M	S8516MC	S8516MA	S8516MB					.3125	.5000	.1562			

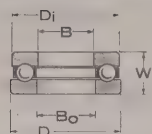
NEED HELP ON BEARINGS—CALL US

MINIATURE PRECISION BEARINGS

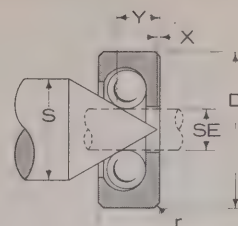
PIVOT BEARINGS
TYPE PR
Metric sizes



THRUST BEARINGS
TYPE T



PIVOT BEARINGS
TYPE A
Inch sizes



Bearing No.	D +.0000 -.0002	W +.002 -.002	S Min.	X +.002 -.002	Y +.002 -.002
S1½PR	.0590	.0472	.020	.026	.034
S3PR	.1181	.0709	.030	.037	.054
S4PR	.1575	.0945	.040	.049	.074
S5PR	.1968	.1181	.050	.059	.091
S7½PR	.2953	.1772	.075	.090	.138
S10PR	.3937	.2362	.100	.118	.182

Bearing No.	D +.0000 -.0002	B +.0000 -.0002	W +.000 -.002	Di +.000 -.002	Bo +.002 -.000
♦S2T	.1250	.0400	.0625	.1230	.0420
S4T	.2500	.0937	.0937	.2480	.0957
S5T	.3125	.1250	.1250	.3105	.1270
S6T	.3750	.1875	.1500	.3730	.1895
S7T	.4375	.1250	.1500	.4355	.1270

Bearing No.	D +.0000 -.0002	W +.000 -.002	SE Max.	S Min.	*X +.005 -.005	Y +.005 -.005
S2A	.1250	.0469	.032	.042	.001	.034
S3A	.1875	.0700	.048	.062	.003	.051
S4A	.2500	.0937	.065	.085	.002	.066
S6A	.3750	.1406	.094	.124	.006	.098
S6A7B	.3750	.1406	.125	.150	*.014	.104

♦Supplied without retainer.

*Negative value indicates pivot point protrudes.

EXTENDED INNER RING BEARINGS

BEARING NUMBER			Bore +.0000 -.0002	O.D. +.0000 -.0002	WIDTH						Flange O.D.	Flange Thickness	
					+.000		-.001		No Shields	Single		Shield	Double Shield	Open	Shielded
No Shields	Single Shield	Double Shield	Inner	Outer	Inner	Outer	Inner	Outer					
S2CE			.0400	.1250	.0781	.0469							
S2½CE	S2½CHE	S2½CHHE	.0469	.1562	.0937	.0625	.1250	.0937	.1250	.0937			
S3CE	S3CHE	S3CHHE	.0550	.1875	.1094	.0781	.1250	.0937	.1406	.1094			
S4CE	S4CHE	S4CHHE	.0781	.2500	.1250	.0937	.1406	.1094	.1718	.1406			
S3332CE			.0937	.1875									
S5CE	S5CHE	S5CHHE	.0937	.3125	.1406	.1094	.1406	.1094	.1718	.1406			
S418CE	S418CHE	S418CHHE	.1250	.2500	.1250	.0937	.1250	.0937	.1406	.1094			
S518CE	S518CHE	S518CHHE	.1250	.3125	.1250	.3125	.1406	.1094	.1406	.1094			
S618CE	S618CHE	S618CHHE	.1250	.3750	.1406	.1094	.1406	.1094	.1718	.1406			
SR2CE	SR2CHE	SR2CHHE	.1250	.3750	.1875	.1562	.1875	.1562	.1875	.1562			
S5532CE	S5532CHE	S5532CHHE	.1562	.3125	.1406	.1094	.1406	.1094	.1562	.1250			
S5632CE	S5632CHE	S5632CHHE	.1875	.3125	.1406	.1094	.1406	.1094	.1562	.1250			
S6632CE	S6632CHE	S6632CHHE	.1875	.3750	.1562	.1250	.1562	.1250	.1562	.1250			
S614CE	S614CHE	S614CHHE	.2500	.3750	.1562	.1250	.1562	.1250	.1562	.1250			
S814CE	S814CHE	S814CHHE	.2500	.5000	.1562	.1250	.1562	.1250	.2187	.1875			
*S8516RE	*S8516RHE	*S8516RHHE	.3125	.5000	.1875	.1562	.1875	.1562	.1875	.1562			

FLANGED EXTENDED INNER RING BEARINGS

S2FCE			.0400	.1250	.0781	.0469						.171	.013	
S2½FCE	S2½FCHE	S2½FCHHE	.0469	.1562	.0937	.0625	.1250	.0937	.1250	.0937	.0937	.203	.013	.031
S3FCE	S3FCHE	S3FCHHE	.0550	.1875	.1094	.0781	.1250	.0937	.1406	.1094	.1094	.234	.023	.031
S4FCE	S4FCHE	S4FCHHE	.0781	.2500	.1250	.0937	.1406	.1094	.1718	.1406	.1406	.296	.023	.031
S3332FCE			.0937	.1875	.0937	.0625						.234	.018	
S5FCE	S5FCHE	S5FCHHE	.0937	.3125	.1406	.1094	.1406	.1094	.1718	.1406	.1406	.359	.023	.031
S418FCE	S418FCHE	S418FCHHE	.1250	.2500	.1250	.0937	.1250	.0937	.1406	.1094	.1094	.296	.023	.031
S518FCE	S518FCHE	S518FCHHE	.1250	.3125	.1406	.1094	.1406	.1094	.1718	.1406	.1406	.359	.023	.031
S618FCE	S618FCHE	S618FCHHE	.1250	.3750	.1406	.1094	.1406	.1094	.1718	.1406	.1406	.422	.023	.031
SR2FCE	SR2FCHE	SR2FCHHE	.1250	.3750	.1875	.1562	.1875	.1562	.1875	.1562	.1562	.440	.030	.030
S5532FCE	S5532FCHE	S5532FCHHE	.1562	.3125	.1406	.1094	.1406	.1094	.1562	.1250	.1250	.359	.023	.036
S5632FCE	S5632FCHE	S5632FCHHE	.1875	.3125	.1406	.1094	.1406	.1094	.1562	.1250	.1250	.359	.023	.036
S6632FCE	S6632FCHE	S6632FCHHE	.1875	.3750	.1562	.1250	.1562	.1250	.1562	.1250	.1250	.422	.023	.031
S614FCE	S614FCHE	S614FCHHE	.2500	.3750	.1562	.1250	.1562	.1250	.1562	.1250	.1250	.422	.023	.036
S814FCE	S814FCHE	S814FCHHE	.2500	.5000	.1562	.1250	.1562	.1250	.2187	.1875	.1875	.547	.023	.045
*S8516FRE	*S8516FRHE	*S8516FRHHE	.3125	.5000	.1875	.1562	.1875	.1562	.1875	.1562	.1562	.547	.031	.031

*Suffix "R" denotes two-piece ribbon type retainer and is standard on this size.

MINA BEARINGS

MINA BEARING NUMBER						MINA Bearings are low cost miniature and instrument bearings generally popular for commercial and industrial products. MINA Bearings are made to ABEC 3 precision.							
STRAIGHT O.D.			FLANGED O.D.										
						Bore	O.D.	WIDTH			Flange O.D.	Flange Thickness	
Open	Single Shield	Double Shield	Open	Single Shield	Double Shield			Open	Single Shield	*Double Shield		Open	Shielded
S040-125			S040-125F			.0400	.1250	.0469			.171	.013	
S047-156	S047-156H	S047-156HH	S047-156F	S047-156FH	S047-156FHH	.0469	.1562	.0625	.0937	.0937	.203	.013	.031
S055-187	S055-187H	S055-187HH	S055-187F	S055-187FH	S055-187FHH	.0550	.1875	.0781	.0937	.1094	.234	.023	.031
S078-250	S078-250H	S078-250HH	S078-250F	S078-250FH	S078-250FHH	.0781	.2500	.0937	.1094	.1406	.296	.023	.031
S094-187			S094-187F			.0937	.1875	.0625			.234	.018	
S094-312	S094-312H	S094-312HH	S094-312F	S094-312FH	S094-312FHH	.0937	.3125	.1094	.1094	.1406	.359	.023	.031
S125-250	S125-250H	S125-250HH	S125-250F	S125-250FH	S125-250FHH	.1250	.2500	.0937	.0937	.1094	.296	.023	.031
S125-312	S125-312H	S125-312HH	S125-312F	S125-312FH	S125-312FHH	.1250	.3125	.1094	.1094	.1406	.359	.023	.031
S125-375	S125-375H	S125-375HH	S125-375F	S125-375FH	S125-375FHH	.1250	.3750	.1562	.1562	.1562	.440	.030	.030
S125-500	S125-500H	S125-500HH				.1250	.5000	.1719					
S187-312	S187-312H	S187-312HH	S187-312F	S187-312FH	S187-312FHH	.1875	.3125	.1094	.1094	.1250	.359	.023	.036
S187-375	S187-375H	S187-375HH	S187-375F	S187-375FH	S187-375FHH	.1875	.3750	.1250	.1250	.1250	.422	.023	.031
S187-500	S187-500H	S187-500HH	S187-500F	S187-500FH	S187-500FHH	.1875	.5000	.1562	.1960	.1960	.565	.042	.042
S250-500	S250-500H	S250-500HH	S250-500F	S250-500FH	S250-500FHH	.2500	.5000	.1250	.1250	.1875	.547	.023	.045
S250-625	S250-625H	S250-625HH	S250-625F	S250-625FH	S250-625FHH	.2500	.6250	.1960	.1960	.1960	.690	.042	.042

*Width dimension for both single and double shield flanged bearings.

NEED HELP ON BEARINGS—CALL US



1000 Maximum Type

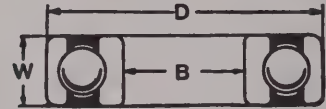
NEW DEPARTURE BALL BEARINGS

SINGLE ROW RADIAL

(Metric)

1000 and 3000 Series
Standard and Shielded


3000 Conrad Type



1000 SERIES MAXIMUM TYPE			3000 SERIES CONRAD TYPE			BORE (B)		OUTSIDE DIA. (D)		WIDTH (W)	
Standard No.	With 1 Shield	With 2 Shields	Standard No.	With 1 Shield	With 2 Shields	Mm	Inches	Mm	Inches	Mm	Inches
LIGHT SERIES											
*	*	*	3200	7500	77500	10	.3937	30	1.1811	9	.3543
*	*	*	3201	7501	77501	12	.4724	32	1.2598	10	.3937
*	*	*	3202	7502	77502	15	.5906	35	1.3780	11	.4331
*	*	*	3203	7503	77503	17	.6693	40	1.5748	12	.4724
*	*	*	3204	7504	77504	20	.7874	47	1.8504	14	.5512
*	*	*	3205	7505	77505	25	.9843	52	2.0472	15	.5906
1206	7206	77206	3206	7506	77506	30	1.1811	62	2.4409	16	.6299
1207	7207	77207	3207	7507	77507	35	1.3780	72	2.8346	17	.6693
1208	7208	77208	3208	7508	77508	40	1.5748	80	3.1496	18	.7087
1209	7209	77209	3209	7509	77509	45	1.7717	85	3.3465	19	.7480
1210	7210	77210	3210	7510	77510	50	1.9685	90	3.5433	20	.7874
1211	7211	77211	3211	7511	77511	55	2.1654	100	3.9370	21	.8268
1212	7212	77212	3212	7512	77512	60	2.3622	110	4.3307	22	.8661
1213	7213	77213	3213	7513	77513	65	2.5591	120	4.7244	23	.9055
1214	7214	77214	3214	7514	77514	70	2.7559	125	4.9213	24	.9449
1215	7215	77215	3215	7515	77515	75	2.9528	130	5.1181	25	.9843
1216	7216	77216	3216	7516	77516	80	3.1496	140	5.5118	26	1.0236
1217	7217	77217	3217	7517	77517	85	3.3465	150	5.9055	28	1.1024
1218	7218	77218	3218	7518	77518	90	3.5433	160	6.2992	30	1.1811
1219	7219	77219	3219	7519	77519	95	3.7402	170	6.6929	32	1.2598
1220	7220	77220	3220	7520	77520	100	3.9370	180	7.0866	34	1.3386
1221	7221	77221	Q3221	7521	77521	105	4.1339	190	7.4803	35	1.4173
1222	7222	77222	3222	7522	77522	110	4.3307	200	7.8740	38	1.4961
1224	.....	.....	3224	.....	.....	120	4.7244	215	8.4646	40	1.5748
.....	.....	.....	3226	.....	.....	130	5.1181	230	9.0551	40	1.5748
.....	.....	.....	3228	.....	.....	140	5.5118	250	9.8425	42	1.6535

*Available as 9212, 1 flush seal.

MEDIUM SERIES

*	*	*	3300	7600	77600	10	.3937	35	1.3780	11	.4331
*	*	*	3301	7601	77601	12	.4724	37	1.4567	12	.4724
*	*	*	3302	7602	77602	15	.5906	42	1.6535	13	.5118
*	*	*	3303	7603	77603	17	.6693	47	1.8504	14	.5512
1304	7304	77304	3304	7604	77604	20	.7874	52	2.0472	15	.5906
1305	7305	77305	3305	7605	77605	25	.9843	62	2.4409	17	.6693
1306	7306	77306	3306	7606	77606	30	1.1811	72	2.8346	19	.7480
1307	7307	77307	3307	7607	77607	35	1.3780	80	3.1496	21	.8268
1308	7308	77308	3308	7608	77608	40	1.5748	90	3.5433	23	.9055
1309	7309	77309	3309	7609	77609	45	1.7717	100	3.9370	25	.9843
1310	7310	77310	3310	7610	77610	50	1.9685	110	4.3307	27	1.0630
1311	7311	77311	3311	7611	77611	55	2.1654	120	4.7244	29	1.1417
1312	7312	77312	3312	7612	77612	60	2.3622	130	5.1181	31	1.2205
1313	7313	77313	3313	7613	77613	65	2.5591	140	5.5118	33	1.2992
1314	7314	77314	3314	7614	77614	70	2.7559	150	5.9055	35	1.3780
1315	7315	77315	3315	7615	77615	75	2.9528	160	6.2992	37	1.4567
1316	.....	.....	3316	.....	77616	80	3.1496	170	6.6929	39	1.5354
1317	7317	77317	3317	7617	77617	85	3.3465	180	7.0866	41	1.6142
1318	7318	.....	3318	7618	77618	90	3.5433	190	7.4803	43	1.6929
1319	.....	.....	3319	.....	.....	95	3.7402	200	7.8740	45	1.7717
1320	.....	.....	3320	.....	77620	100	3.9370	215	8.4646	47	1.8504
1321	.....	.....	.....	.....	.....	105	4.1339	225	8.8583	49	1.9291
1322	.....	.....	3322	.....	.....	110	4.3307	240	9.4488	50	1.9685

*Available as 97307, 1 flush seal.

HEAVY SERIES

1404	.....	.....	3404	.....	77705	20	.7874	72	2.8346	19	.7480
1405	7405	.....	3405	7705	77705	25	.9843	80	3.1496	21	.8268
1406	.....	.....	3406	.....	.....	30	1.1811	90	3.5433	23	.9055
1407	.....	.....	3407	.....	.....	35	1.3780	100	3.9373	25	.9843
1408	7408	.....	3408	7708	77708	40	1.5748	110	4.3307	27	1.0630
1409	7409	.....	3409	7709	77709	45	1.7717	120	4.7244	29	1.1417
1410	7410	.....	3410	7710	77710	50	1.9685	130	5.1181	31	1.2205
1411	.....	.....	3411	.....	.....	55	2.1654	140	5.5118	33	1.2992
1412	7412	.....	3412	.....	.....	60	2.3622	150	5.9055	35	1.3780
1413	7413	.....	.....	.....	.....	65	2.5591	160	6.2992	37	1.4567
1414	.....	.....	.....	.....	.....	70	2.7559	180	7.0866	42	1.6535
1415	.....	.....	.....	.....	.....	75	2.9528	190	7.4803	45	1.7717
.....	.....	.....	3416	.....	.....	80	3.1496	200	7.8740	48	1.8898
V1418	.....	.....	.....	.....	.....	90	3.5433	225	8.8583	54	2.1260

*Sizes available only in 3000 Conrad Type.
 "V" indicates Bronze Separator.

NEED HELP ON BEARINGS—CALL US

NEW DEPARTURE BALL BEARINGS

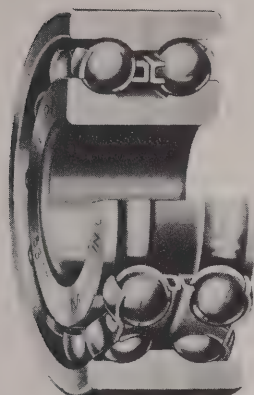
DOUBLE ROW ANGULAR CONTACT

(Metric)

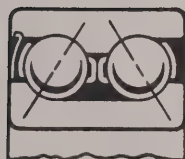
5200, 5300, 5400 Standard Series

5500, 5600 Single Shield Series

55500, 55600 Double Shield Series



Type 5000



Series 5500-5600



Series 55500-55600



Type 5000 W

With Reverse Angle of Contact

Used where slight misalignment occurs due to heat warping housings.

Often used with loose internal fit up.

Stand. No.	With 1 Shield	With 2 Shields	BORE (B)		O. DIA. (D)		WIDTH (W)
			Mm	Inches	Mm	Inches	Inches

LIGHT SERIES

5200	5500	55500	10	.3937	30	1.1811	$\frac{9}{16}$
5201	5501	55501	12	.4724	32	1.2598	$\frac{5}{8}$
5202	5502	55502	15	.5906	35	1.3780	$\frac{5}{8}$
5203	5503	55503	17	.6693	40	1.5748	$\frac{11}{16}$
5204	5504	55504	20	.7874	47	1.8504	$\frac{13}{16}$
*5205	5505	55505	25	.9843	52	2.0472	$\frac{13}{16}$
*5206	*5506	55506	30	1.1811	62	2.4409	$\frac{15}{16}$
*5207	*5507	*55507	35	1.3780	72	2.8346	$\frac{11}{16}$
*5208	5508	55508	40	1.5748	80	3.1496	$\frac{13}{16}$
5209	5509	55509	45	1.7717	85	3.3465	$\frac{13}{16}$
*5210	*5510	*55510	50	1.9685	90	3.5433	$\frac{13}{16}$
*5211	*5511	55511	55	2.1654	100	3.9370	$\frac{15}{16}$
*5212	5512	55512	60	2.3622	110	4.3307	$\frac{17}{16}$
*5213	*5513	55513	65	2.5591	120	4.7244	$\frac{11}{2}$
5214	5514	55514	70	2.7559	125	4.9213	$\frac{19}{16}$
*5215	5515	55515	75	2.9528	130	5.1181	$\frac{15}{8}$
*5216	*5516	55516	80	3.1496	140	5.5118	$\frac{13}{4}$
5217	5517	55517	85	3.3465	150	5.9055	$\frac{115}{16}$
*5218	*5518	55518	90	3.5433	160	6.2992	$\frac{21}{16}$
5219	.....	.....	95	3.7402	170	6.6929	$\frac{23}{16}$
5220	5520	55520	100	3.9370	180	7.0866	$\frac{23}{8}$
*5222	*5522	*55522	110	4.3307	200	7.8740	$\frac{23}{4}$

MEDIUM SERIES

5300	5600	55600	10	.3937	35	1.3780	$\frac{3}{4}$
5301	5601	55601	12	.4724	37	1.4567	$\frac{3}{4}$
5302	5602	55602	15	.5906	42	1.6535	$\frac{3}{4}$
5303	5603	55603	17	.6693	47	1.8504	$\frac{7}{8}$
5304	5604	55604	20	.7874	52	2.0472	$\frac{7}{8}$
5305	5605	55605	25	.9843	62	2.4409	1
*5306	*5606	*55606	30	1.1811	72	2.8346	$\frac{13}{16}$
5307	*5607	55607	35	1.3780	80	3.1496	$\frac{13}{8}$
5308	5608	55608	40	1.5748	90	3.5433	$\frac{17}{16}$
*5309	5609	55609	45	1.7717	100	3.9370	$\frac{19}{16}$
*5310	*5610	*55610	50	1.9685	110	4.3307	$\frac{13}{4}$
*5311	5611	55611	55	2.1654	120	4.7244	$\frac{115}{16}$
*5312	*5612	55612	60	2.3622	130	5.1181	$\frac{21}{8}$
*5313	5613	55613	65	2.5591	140	5.5118	$\frac{25}{16}$
5314	.....	.....	70	2.7559	150	5.9055	$\frac{21}{2}$
5315	.....	.....	75	2.9528	160	6.2992	$\frac{211}{16}$
5316	.....	.....	80	3.1496	170	6.6929	$\frac{211}{8}$
5318	.....	.....	90	3.5433	190	7.4803	$\frac{27}{8}$

HEAVY SERIES

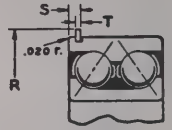
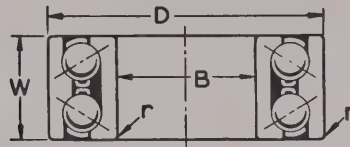
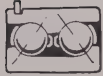
5407	.....	.....	35	1.3780	100	3.9370	$\frac{13}{4}$
5408	.....	.....	40	1.5748	110	4.3307	$\frac{115}{16}$
5409	.....	.....	45	1.7717	120	4.7244	$\frac{21}{8}$

*Available in Externally Diverging Angles of Contact Type—Designated by suffix W.

NEED HELP ON BEARINGS—CALL US

NEW DEPARTURE BALL BEARINGS

DOUBLE ROW SNAP RING TYPE



DOUBLE ROW—LIGHT SERIES 45200

Snap Ring	Snap Ring 1 Shield	Snap Ring 2 Shields	BORE (B)		DIAM. (D)		WIDTH (W)		"R"	"T"	"S"
			Mm	Inches	Mm	Inches	Mm	Inches	Inches	Inches	Inches
45200	45500	455500	10	.3937	30	1.1811	14.29	.5625	1 ³ / ₆₄	.042	.120
45201	45501	455501	12	.4724	32	1.2598	15.88	.625	1 ⁷ / ₁₆	.042	.120
45202	45502	455502	15	.5906	35	1.3780	15.88	.625	1 ³⁵ / ₆₄	.042	.120
45203	45503	455503	17	.6693	40	1.5748	17.46	.6875	1 ³ / ₄	.042	.120
45204	45504	455504	20	.7874	47	1.8504	20.64	.8125	2 ¹ / ₁₆	.042	.136
45205	45505	455505	25	.9843	52	2.0472	20.64	.8125	2 ¹⁷ / ₆₄	.042	.136
45206	45506	455506	30	1.1811	62	2.4409	23.81	.9375	2 ²¹ / ₃₂	.065	.190
45207	45507	455507	35	1.3780	72	2.8346	26.99	1.0625	3 ⁵ / ₆₄	.065	.190
45208	45508	455508	40	1.5748	80	3.1496	30.16	1.1875	3 ¹³ / ₃₂	.065	.190
45209	45509	455509	45	1.7717	85	3.3465	30.16	1.1875	3 ¹⁹ / ₃₂	.065	.190
45210	45510	455510	50	1.9685	90	3.5433	30.16	1.1875	3 ⁵¹ / ₆₄	.095	.220
45211	45511	455511	55	2.1654	100	3.9370	33.34	1.3125	4 ³ / ₁₆	.095	.220
45212	45512	455512	60	2.3622	110	4.3307	36.51	1.4375	4 ³⁷ / ₆₄	.095	.220
45213	45513	455513	65	2.5591	120	4.7244	38.10	1.500	5 ³ / ₃₂	.109	.265
45214	45514	.....	70	2.7559	125	4.9213	39.69	1.5625	5 ¹⁹ / ₆₄	.109	.265
45215	45515	455515	75	2.9528	130	5.1181	41.28	1.625	5 ¹ / ₂	.109	.265
45216	45516	455516	80	3.1496	140	5.5118	44.45	1.750	5 ⁵⁷ / ₆₄	.109	.297
45217	.....	455517	85	3.3465	150	5.9055	49.21	1.9375	6 ⁹ / ₃₂	.109	.297
45218	.....	455518	90	3.5433	160	6.2992	52.39	2.0625	6 ⁴³ / ₆₄	.109	.297
45219	.....	.....	95	3.7402	170	6.6929	55.56	2.1875	7 ³ / ₁₆	.120	.339
45220	45520	.....	100	3.9370	180	7.0866	60.33	2.375	7 ¹⁹ / ₃₂	.120	.339
45222	45522	.....	110	4.3307	200	7.8740	69.85	2.750	8 ³ / ₈	.120	.339

DOUBLE ROW—MEDIUM SERIES 45300

45300	.....	455600	10	.3937	35	1.3780	19.05	.750	1 ³⁵ / ₆₄	.042	.120
45302	.....	.....	15	.5906	42	1.6535	19.05	.750	1 ¹³ / ₁₆	.042	.120
45303	45603	455603	17	.6693	47	1.8504	22.23	.875	2 ¹ / ₁₆	.042	.136
45304	45604	455604	20	.7874	52	2.0472	22.23	.875	2 ¹⁷ / ₆₄	.042	.136
45305	45605	455605	25	.9843	62	2.4409	25.40	1.000	2 ²¹ / ₃₂	.065	.190
45306	45606	455606	30	1.1811	72	2.8346	30.16	1.1875	3 ⁵ / ₆₄	.065	.190
45307	45607	.....	35	1.3780	80	3.1496	34.93	1.375	3 ¹³ / ₃₂	.065	.190
45308	45608	455608	40	1.5748	90	3.5433	36.51	1.4375	3 ⁵¹ / ₆₄	.095	.220
45309	45609	455609	45	1.7717	100	3.9370	39.68	1.5625	4 ³ / ₁₆	.095	.220
45310	45610	455610	50	1.9685	110	4.3307	44.45	1.750	4 ³⁷ / ₆₄	.095	.220
45311	45611	.....	55	2.1654	120	4.7244	49.21	1.9375	5 ³ / ₃₂	.109	.265
45312	45612	.....	60	2.3622	130	5.1181	53.98	2.125	5 ¹ / ₂	.109	.265
45313	45613	.....	65	2.5591	140	5.5118	58.74	2.3125	5 ⁵⁷ / ₆₄	.109	.297
45314	.....	.....	70	2.7559	150	5.9055	63.50	2.500	6 ⁹ / ₃₂	.109	.297
45315	.....	.....	75	2.9528	160	6.2992	68.26	2.6875	6 ⁴³ / ₆₄	.109	.297
45316	.....	.....	80	3.1496	170	6.6929	68.26	2.6875	7 ³ / ₁₆	.120	.339

DOUBLE ROW—HEAVY SERIES—45400

45407			35	1.3780	100	3.9370	44.45	1.750	4 ³ / ₁₆	.095	.220
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NEED HELP ON BEARINGS—CALL US

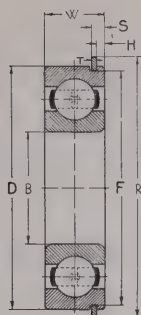
NEW DEPARTURE BALL BEARINGS

SNAP RING BEARINGS

(Metric)

With and Without
Shields

SINGLE ROW FILLING SLOT TYPE



Snap Ring
and Shields

Single Row Snap Ring Type

LIGHT SERIES

Bearing No. Without Shield	Bearing No. With 1 Shield	Bearing No. With 2 Shields	BORE (B)		OUTSIDE DIA. (D)		WIDTH (W)		"R"	"T"	"S"
			Mm	Inches	Mm	Inches	Mm	Inches	Inches	Inches	Inches
41206	47206	477206	30	1.1811	62	2.4409	16	.6299	$2\frac{21}{32}$	.065	.190
41207	47207	477207	35	1.3780	72	2.8346	17	.6693	$3\frac{5}{64}$	.065	.190
41208	47208	477208	40	1.5748	80	3.1496	18	.7087	$3\frac{13}{32}$	.065	.190
41209	47209	477209	45	1.7717	85	3.3465	19	.7480	$3\frac{19}{32}$	.065	.190
41210	47210	477210	50	1.9685	90	3.5433	20	.7874	$3\frac{51}{64}$	.095	.220
41211	47211	477211	55	2.1654	100	3.9370	21	.8268	$4\frac{3}{16}$	.095	.220
41212	47212	477212	60	2.3622	110	4.3307	22	.8661	$4\frac{37}{64}$	.095	.220
41213	47213	477213	65	2.5591	120	4.7244	23	.9055	$5\frac{3}{32}$	.109	.265
41214	47214	.....	70	2.7559	125	4.9213	24	.9449	$5\frac{19}{64}$	.109	.265
41215	47215	477215	75	2.9528	130	5.1181	25	.9843	$5\frac{1}{2}$	.109	.265
41216	47216	.....	80	3.1496	140	5.5118	26	1.0236	$5\frac{57}{64}$	.109	.297
41217	47217	.....	85	3.3465	150	5.9055	28	1.1024	$6\frac{9}{32}$	.109	.297
41218	47218	477218	90	3.5433	160	6.2992	30	1.1811	$6\frac{43}{64}$	.109	.297
41219	47219	477219	95	3.7402	170	6.6929	32	1.2598	$7\frac{9}{16}$	.120	.339
41220	.....	.....	100	3.9370	180	7.0866	34	1.3386	$7\frac{19}{32}$	.120	.339
41222	.....	.....	110	4.3307	200	7.8740	38	1.4961	$8\frac{3}{8}$	.120	.339

MEDIUM SERIES

41304	47304	477304	20	.7874	52	2.0472	15	.5906	$2\frac{17}{64}$	.042	.136
41305	47305	477305	25	.9843	62	2.4409	17	.6693	$2\frac{21}{32}$	.065	.190
41306	47306	477306	30	1.1811	72	2.8346	19	.7480	$3\frac{5}{64}$	.065	.190
41307	47307	477307	35	1.3780	80	3.1496	21	.8268	$3\frac{13}{32}$	.065	.190
41308	47308	477308	40	1.5748	90	3.5433	23	.9055	$3\frac{51}{64}$	.095	.220
41309	47309	477309	45	1.7717	100	3.9370	25	.9843	$4\frac{3}{16}$	.095	.220
41310	47310	477310	50	1.9685	110	4.3307	27	1.0630	$4\frac{37}{64}$	.095	.220
41311	47311	477311	55	2.1654	120	4.7244	29	1.1417	$5\frac{3}{32}$	.109	.265
41312	47312	477312	60	2.3622	130	5.1181	31	1.2205	$5\frac{1}{2}$	.109	.265
41313	47313	.....	65	2.5591	140	5.5118	33	1.2992	$5\frac{57}{64}$	.109	.297
41314	47314	.....	70	2.7559	150	5.9055	35	1.3780	$6\frac{9}{32}$	.109	.297
41315	47315	.....	75	2.9528	160	6.2992	37	1.4576	$6\frac{43}{64}$	.109	.297
41316	.....	.....	80	3.1496	170	6.6929	39	1.5354	$7\frac{9}{16}$	.120	.339
41317	47317	.....	85	3.3465	180	7.0866	41	1.6142	$7\frac{19}{32}$	.120	.339
41319	.....	.....	95	3.7402	200	7.8740	45	1.7717	$8\frac{3}{8}$	.120	.339
41320	.....	.....	100	3.9370	215	8.4646	47	1.8504	$8\frac{31}{32}$	.120	.339

HEAVY SERIES

41410	.....	.....	50	1.9685	130	5.1181	31	1.2205	$5\frac{1}{2}$	.109	.265
41412	.....	.....	60	2.3622	150	5.9055	35	1.3780	$6\frac{9}{32}$	.109	.297

NEED HELP ON BEARINGS—CALL US

NEW DEPARTURE BALL BEARINGS SNAP RING BEARINGS

(Metric)

With and Without
Shields

SINGLE ROW CONRAD TYPE—
DEEP UNINTERRUPTED RACEWAYS

LIGHT SERIES

Single Row Snap Ring Type

Snap Ring
and Shields

Bearing No. Without Shield	Bearing No. With 1 Shield	Bearing No. With 2 Shields	BORE (B)		OUTSIDE DIAM. (D)		WIDTH (W)		"R" Inches	"T" Inches	"S" Inches
			Mm	Inches	Mm	Inches	Mm	Inches			
43200	47500	477500	10	.3937	30	1.1811	9	.3543	$1\frac{23}{64}$	.042	.120
43201	47501	477501	12	.4724	32	1.2598	10	.3937	$1\frac{17}{16}$	.042	.120
43202	47502	477502	15	.5906	35	1.3780	11	.4331	$1\frac{35}{64}$	.042	.120
43203	47503	477503	17	.6693	40	1.5748	12	.4724	$1\frac{3}{4}$	.042	.120
43204	47504	477504	20	.7874	47	1.8504	14	.5512	$2\frac{1}{16}$	.042	.136
43205	47505	477505	25	.9843	52	2.0472	15	.5906	$2\frac{17}{64}$	.042	.136
43206	47506	477506	30	1.1811	62	2.4409	16	.6299	$2\frac{21}{32}$	.065	.190
43207	47507	477507	35	1.3780	72	2.8346	17	.6693	$3\frac{5}{64}$	.065	.190
43208	47508	477508	40	1.5748	80	3.1496	18	.7087	$3\frac{13}{32}$	.065	.190
43209	47509	477509	45	1.7717	85	3.3465	19	.7480	$3\frac{19}{32}$	.065	.190
43210	47510	477510	50	1.9685	90	3.5433	20	.7874	$3\frac{51}{64}$	.095	.220
43211	47511	477511	55	2.1654	100	3.9370	21	.8268	$4\frac{3}{16}$	.095	.220
43212	47512	477512	60	2.3622	110	4.3307	22	.8661	$4\frac{37}{64}$	.095	.220
43213	47513	477513	65	2.5591	120	4.7244	23	.9055	$5\frac{3}{32}$	.109	.265
43214	47514	477514	70	2.7559	125	4.9213	24	.9449	$5\frac{19}{64}$	.109	.265
43215	47515	477515	75	2.9528	130	5.1181	25	.9843	$5\frac{1}{2}$	.109	.265
43216	47516	477516	80	3.1496	140	5.5118	26	1.0236	$5\frac{57}{64}$	.109	.297
43217	47517	477517	85	3.3465	150	5.9055	28	1.1024	$6\frac{9}{32}$	.109	.297
43218	47518	477518	90	3.5433	160	6.2992	30	1.1811	$6\frac{43}{64}$	.109	.297
43219	47519	477519	95	3.7402	170	6.6929	32	1.2598	$7\frac{3}{16}$	.120	.339
43220	47520	477520	100	3.9370	180	7.0866	34	1.3386	$7\frac{19}{32}$	.120	.339
43222	47522	477522	110	4.3307	200	7.8740	38	1.4961	$8\frac{3}{8}$	.120	.339

MEDIUM SERIES

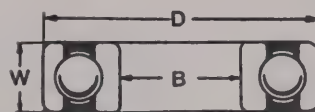
43300	47600	.....	10	.3937	35	1.3780	11	.4331	$1\frac{35}{64}$	.042	.120
43301	.....	.....	12	.4724	37	1.4567	12	.4724	$1\frac{39}{64}$	.042	.120
43302	47602	477602	15	.5906	42	1.6535	13	.5118	$1\frac{13}{16}$	.042	.120
43303	47603	477603	17	.6693	47	1.8504	14	.5512	$2\frac{1}{16}$	.042	.136
43304	47604	477604	20	.7874	52	2.0472	15	.5906	$2\frac{17}{64}$	.042	.136
43305	47605	477605	25	.9843	62	2.4409	17	.6693	$2\frac{21}{32}$	.065	.190
43306	47606	477606	30	1.1811	72	2.8346	19	.7480	$3\frac{5}{64}$	.065	.190
43307	47607	477607	35	1.3780	80	3.1496	21	.8268	$3\frac{13}{32}$	.065	.190
43308	47608	477608	40	1.5748	90	3.5433	23	.9055	$3\frac{51}{64}$	.095	.220
43309	47609	477609	45	1.7717	100	3.9370	25	.9843	$4\frac{3}{16}$	.095	.220
43310	47610	477610	50	1.9685	110	4.3307	27	1.0630	$4\frac{37}{64}$	.095	.220
43311	47611	477611	55	2.1654	120	4.7244	29	1.1417	$5\frac{3}{32}$	.109	.265
43312	47612	477612	60	2.3622	130	5.1181	31	1.2205	$5\frac{1}{2}$	.109	.265
43313	47613	477613	65	2.5591	140	5.5118	33	1.2992	$5\frac{57}{64}$	.109	.297
43314	47614	.....	70	2.7559	150	5.9055	35	1.3780	$6\frac{9}{32}$	.109	.297
43315	47615	477615	75	2.9528	160	6.2992	37	1.4567	$6\frac{43}{64}$	.109	.297
43316	.....	.....	80	3.1496	170	6.6929	39	1.5354	$7\frac{3}{16}$	.120	.339
43317	47617	.....	85	3.3465	180	7.0866	41	1.6142	$7\frac{19}{32}$	.120	.339
43319	.....	.....	95	3.7402	200	7.8740	45	1.7717	$8\frac{3}{8}$	.120	.339

HEAVY SERIES

.....	47705	.....	25	.9843	80	3.1496	21	.8268	$3\frac{13}{32}$	.065	.190
.....	47708	.....	40	1.5748	110	4.3307	27	1.0630	$4\frac{37}{64}$	.095	.220
43409	.....	.....	45	1.7717	120	4.7244	29	1.1417	$5\frac{3}{32}$	.109	.265
43410	47710	.....	50	1.9685	130	5.1181	31	1.2205	$5\frac{1}{2}$	.109	.265
43411	.....	.....	55	2.1654	140	5.5118	33	1.2992	$5\frac{57}{64}$	.109	.297
43412	.....	.....	60	2.3622	150	5.9055	35	1.3780	$6\frac{9}{32}$	.109	.297
43416	.....	.....	80	3.1496	200	7.8740	48	1.8898	$8\frac{3}{8}$	.120	.339

NEED HELP ON BEARINGS—CALL US

NEW DEPARTURE BALL BEARINGS EXTRA LIGHT SERIES Radial Type 3L00



BEARING SIZE NUMBER						BORE (B)		OUT. DIA. (D)		WIDTH (W)	
Stand. No.	With 1 Shield	With 2 Shields	Snap Ring	Snap Ring 1 Shield	Snap Ring 2 Shields	Mm	Inches	Mm	Inches	Mm	Inches
3L00	73L00	773L00	.....	.....	.....	10	.3937	26	1.0236	8	.3150
3L01	73L01	773L01	.....	.....	.....	12	.4724	28	1.1024	8	.3150
3L02	73L02	773L02	43L02	473L02	4773L02	15	.5906	32	1.2598	9	.3543
3L03	73L03	773L03	43L03	473L03	4773L03	17	.6693	35	1.3780	10	.3937
3L04	73L04	773L04	43L04	473L04	4773L04	20	.7874	42	1.6535	12	.4724
3L05	73L05	773L05	43L05	473L05	4773L05	25	.9843	47	1.8504	12	.4724
3L06	73L06	773L06	43L06	473L06	4773L06	30	1.1811	55	2.1654	13	.5118
3L07	73L07	773L07	43L07	473L07	4773L07	35	1.3780	62	2.4409	14	.5512
3L08	73L08	773L08	43L08	473L08	4773L08	40	1.5748	68	2.6772	15	.5906
3L09	73L09	773L09	43L09	.....	.....	45	1.7717	75	2.9528	16	.6299
3L10	73L10	773L10	43L10	473L10	4773L10	50	1.9685	80	3.1496	16	.6299
3L11	73L11	773L11	43L11	.....	4773L11	55	2.1654	90	3.5433	18	.7087
3L12	73L12	773L12	43L12	473L12	4773L12	60	2.3622	95	3.7403	18	.7087
3L13	73L13	773L13	43L13	473L13	4773L13	65	2.5591	100	3.9370	18	.7087
3L14	73L14	773L14	43L14	473L14	4773L14	70	2.7559	110	4.3307	20	.7874
3L15	73L15	773L15	43L15	473L15	.....	75	2.9528	115	4.5276	20	.7874
3L16	73L16	773L16	43L16	473L16	4773L16	80	3.1496	125	4.9213	22	.8661
3L17	73L17	773L17	43L17	473L17	4773L17	85	3.3465	130	5.1181	22	.8661
3L18	73L18	773L18	43L18	473L18	4773L18	90	3.5433	140	5.5118	24	.9449
3L19	73L19	.....	.....	.....	.....	95	3.7402	145	5.7087	24	.9449
3L20	73L20	773L20	43L20	473L20	4773L20	100	3.9370	150	5.9055	24	.9449
3L21	73L21	773L21	43L21	473L21	.....	105	4.1339	160	6.2992	26	1.0236
3L22	73L22	773L22	43L22	473L22	4773L22	110	4.3307	170	6.6929	28	1.1024
3L24	73L24	773L24	43L24	473L24	4773L24	120	4.7244	180	7.0866	28	1.1024
3L26	.....	.....	43L26	.....	.....	130	5.1181	200	7.8740	33	1.2992
3L28	73L28	.....	43L28	473L28	.....	140	5.5118	210	8.2677	33	1.2992
3L30	.....	.....	.....	.....	.....	150	5.9055	225	8.8583	35	1.3780
3L36	.....	.....	.....	.....	.....	180	7.0866	280	11.0236	46	1.8110
3L38	.....	.....	.....	.....	.....	190	7.4803	290	11.4173	46	1.8110

EXTRA-EXTRA LIGHT SERIES

3LL02	.....	.....	.....	.....	.....	15	.5906	28	1.1024	7	.2756
3LL03	.....	.....	.....	.....	.....	17	.6693	30	1.1811	7	.2756
3LL04	.....	.....	.....	.....	.....	20	.7874	37	1.4567	9	.3543
3LL05	.....	.....	.....	.....	.....	25	.9843	42	1.6535	9	.3543
3LL08	.....	.....	.....	.....	.....	40	1.5748	62	2.4409	12	.4724
3LL12	.....	.....	.....	.....	.....	60	2.3622	85	3.3465	13	.5118
3LL22	.....	.....	.....	.....	.....	110	4.3307	150	5.9055	20	.7874

DOUBLE ROW — ANGULAR CONTACT

EXTRA LIGHT — SERIES 5L00 Angular Contact

For combined loads from any direction. One-piece inner and outer rings with two rows of balls permanently pre-loaded for greater rigidity.



FLANGED — SERIES — N-5L00-A Angular Contact

Available only to precision specifications.
(For Machine Tool Precision Spindles)



Bearing No.	BORE (B)		DIAMETER (D)		WIDTH (W)		Bearing No.	FLANGE O. D. (E)		FLANGE WIDTH (T)	
	Mm	Inches	Mm	Inches	Mm	Inches		Mm	Inches	Mm	Inches
5L11	55	2.1654	90	3.5433	30	1.1811	N5L11A	95	3.7402	5	.197
5L12	60	2.3622	95	3.7402	32	1.2598	N5L12A	99.5	3.9173	4.5	.177
5L14	70	2.7559	110	4.3307	36	1.4173	N5L14A	115	4.5276	5	.197
5L16	80	3.1496	125	4.9213	40	1.5748	N5L16A	130.5	5.1378	5.5	.216
5L18	90	3.5433	140	5.5118	44	1.7323	N5L18A	146	5.7480	6	.236
5L20	100	3.9370	150	5.9055	44	1.7323	N5L20A	156	6.1417	6	.236
5L22	110	4.3307	170	6.6929	52	2.0472	N5L22A	177	6.9685	7	.276
5L24	120	4.7244	180	7.0866	52	2.0472	N5L24A	187	7.3622	7	.276

Extra Light Series Bearings are especially suitable where large shaft size is desired but where the housing diameter is definitely restricted.

NEED HELP ON BEARINGS—CALL US



**NEW DEPARTURE BALL BEARINGS
EXTRA LIGHT SERIES
TYPE QO00
(Angular Contact)**

Available singly or in matched pairs for Duplex Mounting face to face (DF), back to back (DB), or tandem (DT). Single bearings with "U" Prefix, designating Universal, have both faces ground. These can be mounted

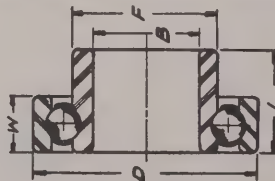
in any of the three Duplex positions.

This Series is usually supplied with non-metallic retainers in most sizes, designated by Prefix "Q."

BEARING NUMBER			BORE (B)						DIAMETER (D)		WIDTH (W)		Brg. Size No.	FLANGE (OD)	
Metallic Retainer	Composition Retainer	Single Shield	Mm	Inches	Mm	Inches	Mm	Inches	Mm	Inches	Mm	Inches	Flanged	Mm	Inches
.....	Q0L00	.....	10	.3937	26	1.0236	8	.3150	.....	.....	.....	.....	.....	.....	.....
.....	Q0L01	.....	12	.4724	28	1.1024	8	.3150	.....	.....	.....	.....	.....	.....	.....
.....	Q0L02	.....	15	.5906	32	1.2598	9	.3543	.....	.....	.....	.....	.....	.....	.....
0L03	.....	Q70L03	17	.6693	35	1.3780	10	.3937	.....	.....	.....	.....	.....	.....	.....
0L04	.....	.....	20	.7874	42	1.6535	12	.4724	.....	.....	.....	.....	.....	.....	.....
.....	Q0L05	.....	25	.9843	47	1.8504	12	.4724	.....	.....	.....	.....	.....	.....	.....
.....	Q0L06	.....	30	1.1811	55	2.1654	13	.5118	QNoL06	.....	58.25	2.293	.....	.....	.....
.....	Q0L07	.....	35	1.3780	62	2.4409	14	.5512	QNoL07	.....	65.5	2.579	.....	.....	.....
.....	Q0L08	.....	40	1.5748	68	2.6772	15	.5906	QNoL08	.....	71.5	2.815	.....	.....	.....
.....	Q0L09	.....	45	1.7717	75	2.9528	16	.6299	QNoL09	.....	79	3.11	.....	.....	.....
.....	Q0L10	.....	50	1.9685	80	3.1496	16	.6299	QNoL10	.....	84	3.307	.....	.....	.....
0L11	.....	.....	55	2.1654	90	3.5433	18	.7087	NoL11	.....	94.5	3.720	.....	.....	.....
0L12	.....	.....	60	2.3622	95	3.7402	18	.7087	NoL12	.....	99.5	3.917	.....	.....	.....
.....	Q0L13	.....	65	2.5591	100	3.9370	18	.7087	QNoL13	.....	104.5	4.114	.....	.....	.....
0L14	.....	.....	70	2.7559	110	4.3307	20	.7874	NoL14	.....	115	4.528	.....	.....	.....
.....	Q0L15	.....	75	2.9528	115	4.5276	20	.7874	QNoL15	.....	120	4.724	.....	.....	.....
0L16	.....	.....	80	3.1496	125	4.9213	22	.8661	NoL16	.....	130.5	5.138	.....	.....	.....
.....	Q0L17	.....	85	3.3465	130	5.1181	22	.8661	QNoL17	.....	135.5	5.335	.....	.....	.....
0L18	.....	.....	90	3.5433	140	5.5118	24	.9449	NoL18	.....	146	5.748	.....	.....	.....
.....	Q0L19	.....	95	3.7402	145	5.7087	24	.9449	.....	.....	.....	.....	.....	.....	.....
0L20	.....	.....	100	3.9370	150	5.9055	24	.9449	.....	.....	.....	.....	.....	.....	.....
.....	Q0L21	.....	105	4.1339	160	6.2992	26	1.0236	QNoL21	.....	166.5	6.555	.....	.....	.....
0L22	.....	.....	110	4.3307	170	6.6929	28	1.1024	.....	.....	.....	.....	.....	.....	.....
0L24	.....	.....	120	4.7244	180	7.0866	28	1.1024	NoL24	.....	187	7.362	.....	.....	.....
.....	Q0L26	.....	130	5.1181	200	7.8740	33	1.2992	QNoL26	.....	208.25	8.199	.....	.....	.....
.....	Q0L28	.....	140	5.5118	210	8.2677	33	1.2992	.....	.....	.....	.....	.....	.....	.....
.....	Q0L30	.....	150	5.9055	225	8.8583	35	1.3780	.....	.....	.....	.....	.....	.....	.....

SINGLE ROW — WIDE INNER RING — TYPE 4000

Non-Loading Groove—Same as Type 3000 Except Has Wide Inner Ring
Extensively used in commercial electric motors.

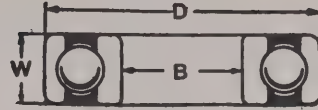


Bearing No.	BORE (B)		OUTSIDE DIA. (D)		WIDTHS				O. D. OF INNER RING (F) Inches
	Mm	Inches	Mm	Inches	INNER RING (L)		OUTER RING (W)		
					Mm	Inches	Mm	Inches	
4510	50	1.9685	90	3.5433	30.16	1.1875	20	.7874	.....
4604	20	.7874	52	2.0472	22.2	.875	15	.5906	.....
4605	25	.9843	62	2.4409	25.40	1.0000	17	.6693	1.445
4606	30	1.1811	72	2.8346	30.16	1.1875	19	.7480	1.703
4607	35	1.3780	80	3.1496	34.93	1.3750	21	.8268	1.934
4608	40	1.5748	90	3.5433	36.5	1.4375	23	.9055	2.198
4609	45	1.7717	100	3.9370	39.69	1.5625	25	.9843	2.451
4610	50	1.9685	110	4.3307	44.45	1.7500	27	1.0630	2.713
4611	55	2.1654	120	4.7244	49.21	1.9375	29	1.1417	2.971
4613	65	2.5591	140	5.5118	58.7	2.3125	33	1.2992	3.491
4615	75	2.9528	160	6.2992	68.26	2.6875	37	1.4567	3.964

NEED HELP ON BEARINGS—CALL US



NEW DEPARTURE BALL BEARINGS



MAGNETO TYPE

For radial and light thrust loads. Mounted two bearings opposed. Made separable to speedup assembly of mechanisms in which they are used.

Bearing No.	BORE		OUTSIDE DIA.		WIDTH	
	Mm	Inches	Mm	Inches	Mm	Inches
ND5	5	.1969	16	.6299	5	.1969
ND5-4	4	.1575	16	.6299	5	.1969
ND8	8	.3150	24	.9449	7	.2756
ND8-6	6	.2362	24	.9449	7	.2756
ND8-7	7	.2750	24	.9449	7	.2756
ND10	10	.3937	28	1.1024	8	.3150
ND10-9	9	.3543	28	1.1024	8	.3150
ND10A	10	.3937	28	1.1024	12	.4724
ND12	12	.4724	32	1.2598	7	.2756
ND12-11	11	.4331	32	1.2598	7	.2756
ND13	13	.5118	30	1.1811	7	.2756
ND13-14	14	.5512	30	1.1811	7	.2756
ND13F	13	.5118	30	1.1811	7	.2756
ND15	15	.5906	35	1.3780	8	.3150
ND15F	15	.5906	35	1.3780	8	.3150
ND15J	15	.5906	35	1.3780	8	.3150
ND15H	15	.5906	35	1.3780	8	.3150
ND16	16	.6299	38	1.4961	10	.3937
ND16F	16	.6299	38	1.4961	10	.3937
ND17	17	.6693	44	1.7323	11	.4331
ND17E	17	.6693	44	1.7323	10	.3937
ND17F	17	.6693	44	1.7323	10	.3937
ND17H	17	.6693	40	1.5748	10	.3937
ND17J	17.4	.6875	34.9	1.3754	11	.4331
ND20	20	.7874	47	1.8504	14	.5512
ND25	25	.9843	52	2.0472	15	.5906
ND25F	25.4	1.000	46.8	1.8437	12.7	.500

†Separable Cone
•Obsolete

Extra Small Single Row Radial Types

BEARING TYPE AND NO.			BORE (B)		O. DIA. (D)		WIDTH (W)			
Stand. No. Unsh'd	With One Shield	With Two Shields	Mm	Inches	Mm	Inches	Std. Brg. Unshielded		With One or Two Shields	
							Mm	Inches	Mm	Inches

SERIES "R" INSTRUMENT BEARINGS (Inch)

R-2	7R-2	77R-2	...	1/8"	...	3/8"	...	5/16"	...	5/16"
R-2A	7R-2A	77R-2A	...	1/8"	...	3/8"	...	5/16"	...	5/16"
R-3	7R-3	77R-3	...	1/8"	...	3/8"	...	5/16"	...	.1969
R-4	*7R-4	*77R-4	...	1/4"	...	3/4"	...	.1969	...	.1969
R-4A	7R-4A	77R-4A	...	1/4"	...	3/4"	...	1/2"	...	1/2"
R-6	*7R-6	*77R-6	...	3/8"	...	7/8"	...	7/16"	...	9/16"
R-8	*7R-8	*77R-8	...	1/2"	...	1 1/8"	...	1/2"	...	5/8"
R-10	7R-10	77R-10	...	5/8"	...	1 3/8"	...	5/8"	...	1 1/4"
R-12	*7R-12	*77R-12	...	3/4"	...	1 5/8"	...	1 1/8"	...	1 3/4"
R-14	7R-14	77R-14	...	7/8"	...	1 7/8"	...	3/4"	...	1 1/2"
R-16	7R-16	*77R-16	...	1	...	2	...	3/8"	...	1 1/2"
R-18	7R-18	77R-18	...	1 1/8"	...	2 1/8"	...	3/8"	...	1 3/4"
R-20	...	...	...	1 1/4"	...	2 1/4"	...	3/8"	...	...
R-22	7R-22	Z99R-22	...	1 3/8"	...	2 3/8"	...	7/16"	...	9/16"
R-24	...	...	...	1 1/2"	...	2 3/4"	...	7/16"	...	...

R2 thru R12 available with Removable Shields, i.e., RS7R2, RS77R2, etc.

*Available with Removable Senti-Seals. Senti-Seal types R-10, R-12 available with snap ring and shield combinations.

TYPE 30 SERIES (Metric)

34	7034	77034	4	0.1575	16	0.6299	5	0.1969	5	0.1969
35	7035	77035	5	0.1969	19	0.7480	6	0.2362	6	0.2362
36	7036	77036	6	0.2362	19	0.7480	6	0.2362	6	0.2362
37	7037	77037	7	0.2756	22	0.8661	7	0.2756	7	0.2756
38	7038	77038	8	0.3150	22	0.8661	7	0.2756	7	0.2756
†WC38A	WC7038A	...	8	0.3150	22	0.8661	10.31	0.406	10.31	0.406
39	7039	77039	9	0.3543	26	1.0236	8	0.3150	8	0.3150
†39-7	7039-7	77039-7	7	0.2756	26	1.0236	8	0.3150	8	0.3150
†.....	7039-10	77039-10	10	0.3937	26	1.0236	8	0.3150	8	0.3150

FLANGED PRECISION BEARINGS—NM-0200-B SERIES

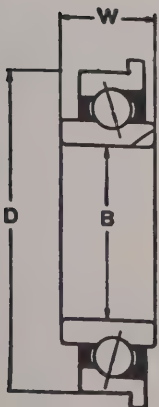
SINGLE ROW

Angular Contact

Single Row Angular Contact bearings. Mounted two bearings opposed for combined loads from either direction. Thrust capacity 100% of rated radial capacity.

TYPE NM0200-B

Available in precision specifications only.



BEARING PART NO.	BORE (B)		DIAMETER (D)		WIDTH (W)	
	Mm	Inches	Mm	Inches	Mm	Inches
NM0205-B	25	.9843	52	2.0472	17	.6693
NM0206-B	30	1.1811	62	2.4409	19	.7480
NM0207-B	35	1.3780	72	2.8346	21	.8268
†NM0208-B	40	1.5748	80	3.1496	23	.9055
NM0210-B	50	1.9685	90	3.5433	27	1.0630
†NM0210-B-8	40	1.5748	90	3.5433	27	1.0630
†NM0210-B-9	45	1.7717	90	3.5433	27	1.0630
NM0212-B	60	2.3622	110	4.3307	31	1.2205
†NM0212-B-11	55	2.1654	110	4.3307	31	1.2205
NM0214-B	70	2.7559	125	4.9213	35	1.3780
†NM0214-B-13	65	2.5591	125	4.9213	35	1.3780
NM0216-B	80	3.1496	140	5.5118	39	1.5354
†NM0216-B-15	75	2.9528	140	5.5118	39	1.5354
NM0218-B	90	3.5433	160	6.2992	43	1.6929
†NM0220-B	100	3.9370	180	7.0866	47	1.8504
NM0222-B	110	4.3307	200	7.8740	50	1.9685
NM0224-B	120	4.7244	215	8.4646	55	2.1654

†Check for availability.

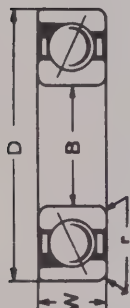
NEW DEPARTURE BALL BEARINGS SINGLE AND DUPLEX ANGULAR CONTACT

20,000 AND Q30,000 SERIES (Metric)

New Departure single row angular contact bearings are now universally "flush ground" (identified by "U" prefix) so that any two individually boxed bearings can be paired to each other and mounted in any of the three basic duplex arrangements DB, DF, or DT.

LIGHT SERIES

Also available in "PERFEX" or super-precision limits for high speed spindle applications.



SINGLE BEARING

BEARING NUMBER			BORE B		DIAMETER D		WIDTH W		Bearing No.	FLANGE OD	
Single Bearing	Single Bearing	Snap Ring	Mm	Inches	Mm	Inches	Mm	Inches	Flanged	Mm	Inches
U20200	.....	.....	10	.3937	30	1.1811	9	.3543	.....	.....	.....
U20201	.....	.....	12	.4724	32	1.2598	10	.3937	.....	.....	.....
U20202	.....	1 Shield	15	.5906	35	1.3780	11	.4331	.....	.....	.....
U20203	U30203	Q720203	17	.6693	40	1.5748	12	.4724	N20203	43.18	1.700
U20204	U30204	.....	20	.7874	47	1.8504	14	.5512	N20204	5.17	1.975
U20205	U30205	Q420205	25	.9843	52	2.0472	15	.5906	N20205	55.17	2.172
U20206	UQ30206	420206	30	1.1811	62	2.4409	16	.6299	N20206	67	2.6378
U20207	UQ30207	.....	35	1.3780	72	2.8346	17	.6693	N20207	77	3.0315
U20208	UQ30208	420208	40	1.5748	80	3.1496	18	.7087	N20208	85	3.3465
U20209	UQ30209	420209	45	1.7717	85	3.3465	19	.7480	.....	.....	.....
U20210	UQ30210	.....	50	1.9685	90	3.5433	20	.7874	N20210	95	3.7402
U20211	UQ30211	.....	55	2.1654	100	3.9370	21	.8268	N20211	105	4.1339
U20212	UQ30212	.....	60	2.3622	110	4.3307	22	.8661	N20212	116	4.5669
U20213	UQ30213	.....	65	2.5591	120	4.7244	23	.9055	.....	.....	.....
U20214	UQ30214	420214	70	2.7559	125	4.9213	24	.9449	N20214	131	5.1575
U20215	UQ30215	.....	75	2.9528	130	5.1181	25	.9843	.....	.....	.....
U20216	UQ30216	.....	80	3.1496	140	5.5118	26	1.0236	N20216	146.5	5.7677
U20217	UQ30217	.....	85	3.3465	150	5.9055	28	1.1024	.....	.....	.....
U20218	UQ30218	.....	90	3.5433	160	6.2992	30	1.1811	N20218	167.5	6.5945
U20219	UQ30219	.....	95	3.7402	170	6.6929	32	1.2598	.....	.....	.....
U20220	UQ30220	.....	100	3.9370	180	7.0866	34	1.3386	N20220	188.5	7.4212
U20221	UQ30221	.....	105	4.1339	190	7.4803	36	1.4173	.....	.....	.....
U20222	UQ30222	.....	110	4.3307	200	7.8740	38	1.4961	N20222	209.5	8.2480
U20224	.....	.....	120	4.7244	215	8.4646	40	1.5748	.....	.....	.....
UQ20226	UQ30226	.....	130	5.1181	230	9.0551	40	1.5748	QN20226	240	9.4488
UQ20228	.....	.....	140	5.5118	250	9.8425	42	1.6535	.....	.....	.....
UQ20230	.....	.....	150	5.9055	270	10.6299	45	1.7717	.....	.....	.....

MEDIUM SERIES

UH20300	.....	.....	10	.3937	35	1.3780	11	.4331
UH20301	.....	.....	12	.4724	37	1.4567	12	.4724
UH20302	.....	.....	15	.5906	42	1.6535	13	.5118
UH20303	.....	1 Shield	17	.6693	47	1.8504	14	.5512
UH20304	UQ30304	720304	20	.7874	52	2.0472	15	.5906
UH20305	UQ30305	.....	25	.9843	62	2.4409	17	.6693
UH20306	UQ30306	.....	30	1.1811	72	2.8346	19	.7480
UH20307	UQ30307	.....	35	1.3780	80	3.1496	21	.8268
UH20308	UQ30308	Snap Rg.	40	1.5748	90	3.5433	23	.9055
UH20309	UQ30309	420309	45	1.7717	100	3.9370	25	.9843
UH20310	UQ30310	420310	50	1.9685	110	4.3307	27	1.0630
UH20311	UQ30311	.....	55	2.1654	120	4.7244	29	1.1417
UH20312	UQ30312	.....	60	2.3622	130	5.1181	31	1.2205
UH20313	UQ30313	.....	65	2.5591	140	5.5118	33	1.2992
UH20314	UQ30314	.....	70	2.7559	150	5.9055	35	1.3780
UH20315	UQ30315	.....	75	2.9528	160	6.2992	37	1.4567
UH20316	UQ30316	.....	80	3.1496	170	6.6929	39	1.5354
UH20317	UQ30317	.....	85	3.3465	180	7.0866	41	1.6142
UH20318	UQ30318	.....	90	3.5433	190	7.4803	43	1.6929
UH20319	UQ30319	.....	95	3.7402	200	7.8740	45	1.7717
UH20320	UQ30320	.....	100	3.9370	215	8.4646	47	1.8504
UH20321	UQ30321	.....	105	4.1339	225	8.8583	49	1.9291
UH20322	UQ30322	.....	110	4.3307	240	9.4488	50	1.9685
.....	UQ30326	.....	130	5.1181	280	11.0236	58	2.2835



20,000 Series
For combined radial and thrust loads.



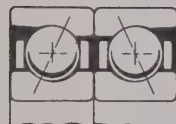
30,000 Series
Highest contact angle for use in resistance to very heavy, single direction thrust loads.



420,000 Series
Snap Ring bearings.



N20,000 Series
Flanged bearings.



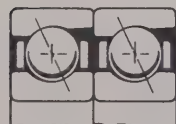
DUPLEX DB TYPE
(Back to Back)

Intended for rigid radial support only with the outer rings floated in the housing.



DUPLEX DF TYPE
(Face to Face)

For combined loads with thrust from either direction.



DUPLEX DT TYPE
(Tandem)

For very heavy thrust loads in one direction.

Prefix Designations.

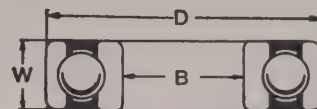
H With 20000 Series Angular Contact Bearing—25° Contact Angle.

N Flanged Outer Race.

Q Non-metallic Separator.

V Cast Bronze Machined Separator.

NEW DEPARTURE BALL BEARINGS SENTRI-SEAL COMPOSITION TYPE



Z9000



Z99000



Z97000



Z49000



Z499000



Z497000

The new Senti-Seal is made of synthetic rubber molded around a flat steel ring which imparts rigidity and strength to the construction and helps to control sealing action. Flexibility and constant contact force is obtained at the lip because of the solid rubber hinge effect apparent in the cross section.

BEARING SIZE NUMBER						BORE (B)		DIAMETER (D)		WIDTH (W)	
1 Seal	2 Seals	1 Seal 1 Shield	SNAP RING								
			1 Seal	2 Seals	1 Seal 1 Shield	Mm	Inches	Mm	Inches	Mm	Inches

EXTRA SMALL SERIES

Z9035	Z99035	Z97035	.....	.....	.....	5	.1969	19	.7480	6	.2362
Z9036	Z99036	Z97036	.....	.....	.....	6	.2362	19	.7480	6	.2362
Z9037	Z99037	Z97037	.....	.....	.....	7	.2756	22	.8661	7	.2756
Z9038	Z99038	Z97038	.....	.....	.....	8	.3150	22	.8661	7	.2756
Z9039	Z99039	Z97039	.....	.....	.....	9	.3543	26	1.0236	8	.3150

EXTRA LIGHT SERIES

Z9-3L00	Z99-3L00	Z97-3L00	.....	.....	.....	10	.3937	26	1.0236	8	.3150
Z9-3L01	Z99-3L01	Z97-3L01	.....	.....	.....	12	.4724	28	1.1024	8	.3150
Z9-3L02	Z99-3L02	Z97-3L02	Z49-3L02	Z499-3L02	Z497-3L02	15	.5906	32	1.2598	9	.3543
Z9-3L03	Z99-3L03	Z97-3L03	Z49-3L03	Z499-3L03	Z497-3L03	17	.6693	35	1.3780	10	.3937
Z9-3L04	Z99-3L04	Z97-3L04	Z49-3L04	Z499-3L04	Z497-3L04	20	.7874	42	1.6535	12	.4724
Z9-3L05	Z99-3L05	Z97-3L05	Z49-3L05	Z499-3L05	Z497-3L05	25	.9843	47	1.8504	12	.4724
Z9-3L06	Z99-3L06	Z97-3L06	Z49-3L06	Z499-3L06	Z497-3L06	30	1.1811	55	2.1654	13	.5118
Z9-3L07	Z99-3L07	Z97-3L07	Z49-3L07	Z499-3L07	Z497-3L07	35	1.3780	62	2.4409	14	.5512
Z9-3L08	Z99-3L08	Z97-3L08	Z49-3L08	Z499-3L08	Z497-3L08	40	1.5748	68	2.6772	15	.5906
Z9-3L09	Z99-3L09	Z97-3L09	.....	.....	.....	45	1.7717	75	2.9528	16	.6299
Z9-3L10	Z99-3L10	Z97-3L10	Z49-3L10	Z499-3L10	Z497-3L10	50	1.9685	80	3.1496	16	.6299
Z9-3L11	Z99-3L11	Z97-3L11	Z49-3L11	Z499-3L11	Z497-3L11	55	2.1654	90	3.5433	18	.7087
Z9-3L12	Z99-3L12	Z97-3L12	Z49-3L12	Z499-3L12	.....	60	2.3622	95	3.7402	18	.7087
Z9-3L13	Z99-3L13	Z97-3L13	Z49-3L13	Z499-3L13	Z497-3L13	65	2.5591	100	3.9370	18	.7087
Z9-3L14	Z99-3L14	Z97-3L14	Z49-3L14	Z499-3L14	Z497-3L14	70	2.7559	110	4.3307	20	.7874

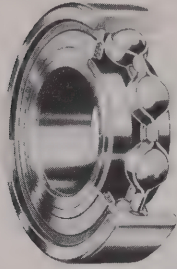
LIGHT SERIES

Z9500	Z99500	Z97500	Z49500	Z499500	Z497500	10	.3937	30	1.1811	9	.3543
Z9501	Z99501	Z97501	Z49501	Z499501	Z497501	12	.4724	32	1.2598	10	.3937
Z9502	Z99502	Z97502	Z49502	Z499502	Z497502	15	.5906	35	1.3780	11	.4331
Z9503	Z99503	Z97503	Z49503	Z499503	Z497503	17	.6693	40	1.5748	12	.4724
Z9504	Z99504	Z97504	Z49504	Z499504	Z497504	20	.7874	47	1.8504	14	.5512
Z9505	Z99505	Z97505	Z49505	Z499505	Z497505	25	.9843	52	2.0472	15	.5906
Z9506	Z99506	Z97506	Z49506	Z499506	Z497506	30	1.1811	62	2.4409	16	.6299
Z9507	Z99507	Z97507	Z49507	Z499507	Z497507	35	1.3780	72	2.8346	17	.6693
Z9508	Z99508	Z97508	Z49508	Z499508	Z497508	40	1.5748	80	3.1496	18	.7087
Z9509	Z99509	Z97509	Z49509	Z499509	Z497509	45	1.7717	85	3.3465	19	.7480
Z9510	Z99510	Z97510	Z49510	Z499510	Z497510	50	1.9685	90	3.5433	20	.7874
Z9511	Z99511	Z97511	Z49511	Z499511	Z497511	55	2.1654	100	3.9370	21	.8268
Z9512	Z99512	Z97512	Z94512	Z499512	Z497512	60	2.3622	110	4.3307	22	.8661

MEDIUM SERIES

Z9602	Z99602	Z97602	Z49602	Z499602	Z497602	15	.5906	42	1.6535	13	.5118
Z9603	Z99603	Z97603	.....	Z499603	Z497603	17	.6693	47	1.8504	14	.5512
Z9604	Z99604	Z97604	Z49604	Z499604	Z497604	20	.7874	52	2.0472	15	.5906
Z9605	Z99605	Z97605	Z49605	Z499605	Z497605	25	.9843	62	2.4409	17	.6693
Z9606	Z99606	Z97606	Z49606	Z499606	Z497606	30	1.1811	72	2.8346	19	.7480
Z9607	Z99607	Z97607	Z49607	Z499607	Z497607	35	1.3780	80	3.1496	21	.8268
Z9608	Z99608	Z97608	Z49608	Z499608	Z497608	40	1.5748	90	3.5433	23	.9055
Z9609	Z99609	Z97609	Z49609	Z499609	Z497609	45	1.7717	100	3.9370	25	.9843
Z9610	Z99610	Z97610	Z49610	Z499610	Z497610	50	1.9685	110	4.3307	27	1.0630

NEED HELP ON BEARINGS—CALL US



NEW DEPARTURE BALL BEARINGS SINGLE ROW FELT-SEALED TYPES



48000

N-D Seal Bearings are of the non-loading groove type. They are similar to Type 3000 and in most cases have the same number and size of balls. Made to standard dimensions for bores, outside diameters and outer ring widths, they average about 15% greater overall width than regular Single Row Bearing.

For radial or combined loads in either direction. Self-contained seal. Furnished completely lubricated, ready for service.

If Snap Ring is desired on same side as seal, indicate with suffix "V," otherwise will be furnished on side opposite to seal as illustrated below.



8000



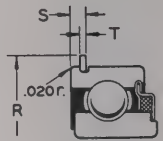
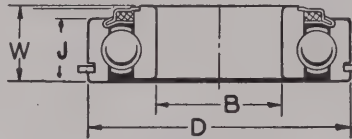
87000



48000



487000



BEARING SIZE NUMBER				BORE (B)		DIAMETER (D)		WIDTH (W)		OUTER RACE WIDTH (J)			
1 Seal	Shield & Seal	SNAP RING		Mm	Inches	Mm	Inches	Mm	Inches	Inches	(R)	(T)	(S)
		1 Seal	Shield & Seal										
8006	87006	.....	.....	6	.2362	24	.9449	10.3	.406	.315	....	....	....
8007	87007	.....	.....	7	.2756	24	.9449	10.3	.406	.315	....	....	....
8008	87008	.....	.....	8	.3150	24	.9449	10.3	.406	.315	....	....	....
8009	87009	48009	487009	9	.3543	30	1.1811	12.699	.500	.354	1 ²³ / ₆₄	.042	.120
8011	87011	48011	487011	11	.4331	32	1.2598	12.699	.500	.394	1 ¹⁷ / ₆₄	.042	.120
8013	87013	48013	487013	13	.5118	32	1.2598	12.699	.500	.394	1 ¹⁷ / ₆₄	.042	.120
8014	87014	48014	487014	14	.5512	35	1.3780	12.699	.500	.433	1 ³⁵ / ₆₄	.042	.120
8016	87016	48016	487016	16	.6299	35	1.3780	12.699	.500	.433	1 ³⁵ / ₆₄	.042	.120
8026	87026	48026	487026	26	1.0236	52	2.0472	15.87	.625	.591	2 ¹⁷ / ₆₄	.042	.136
8035	87035	.....	.....	5	.1969	19	.748	10.3	.406	.315	....	....	....
8036	87036	.....	.....	6	.2362	19	.748	10.3	.406	.315	....	....	....
8037	87037	.....	.....	7	.2756	22	.8661	10.3	.406	.315	....	....	....
8038	87038	.....	.....	8	.3150	22	.8661	10.3	.406	.315	....	....	....
8039	87039	.....	.....	9	.3543	26	1.0236	10.3	.406	.315	....	....	....
8100	.....	.....	.....	16	.6263	35	1.3780	20.6	.8125	.433	....	....	....
8115	87115	.....	.....	15.8	.6245	35	1.3780	12.7	.500	.433	....	....	....
8117	.....	.....	.....	7	.2756	24	.9449	10.3	.406	.315	....	....	....
8118	.....	.....	.....	8	.3150	24	.9449	10.3	.406	.315	....	....	....

LIGHT SERIES

8214	87214	.....	.....	70	2.7559	125	4.9213	24	.9449	1.102	5 ¹⁹ / ₆₄	.109	.265
8500	87500	48500	487500	10	.3937	30	1.1811	12.699	.500	.354	1 ²³ / ₆₄	.042	.120
8501	87501	48501	487501	12	.4724	32	1.2598	12.699	.500	.394	1 ¹⁷ / ₆₄	.042	.120
8502	87502	48502	487502	15	.5906	35	1.3780	12.699	.500	.433	1 ³⁵ / ₆₄	.042	.120
8503	87503	48503	487503	17	.6693	40	1.5748	14.299	.563	.472	1 ³ / ₄	.042	.120
8504	87504	48504	487504	20	.7874	47	1.8504	15.87	.625	.551	2 ¹ / ₆₄	.042	.136
8505	87505	48505	487505	25	.9843	52	2.0472	15.87	.625	.591	2 ¹⁷ / ₆₄	.042	.136
8506	87506	48506	487506	30	1.1811	62	2.4409	19.989	.787	.630	2 ²¹ / ₃₂	.065	.190
8507	87507	48507	487507	35	1.3780	72	2.8346	21	.827	.669	3 ⁵ / ₆₄	.065	.190
8508	87508	48508	487508	40	1.5748	80	3.1496	25	.945	.827	3 ¹³ / ₃₂	.065	.190
8509	87509	48509	487509	45	1.7717	85	3.3465	25	.945	.827	3 ¹⁹ / ₃₂	.065	.190
8510	87510	48510	487510	50	1.9685	90	3.5433	26	1.024	.866	3 ⁵¹ / ₆₄	.095	.220
8511	87511	48511	487511	55	2.1654	100	3.9370	27	1.063	.906	4 ³ / ₁₆	.095	.220
8512	87512	48512	487512	60	2.3622	110	4.3307	29	1.142	.984	4 ³⁷ / ₆₄	.095	.220
8513	87513	48513	487513	65	2.5591	120	4.7244	31	1.221	1.024	5 ³ / ₃₂	.109	.265
8514	87514	.....	.....	70	2.7559	125	4.9213	31.2	1.299	1.102	.....	....	....

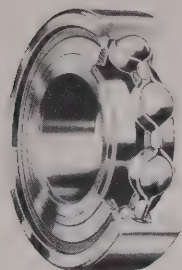
MEDIUM SERIES

8602	87602	48602	.....	15	.5906	42	1.6535	15	.591	.512	1 ¹³ / ₁₆	.042	.120
8603	87603	48603	487603	17	.6693	47	1.8504	16	.630	.551	2 ¹ / ₁₆	.042	.136
8604	87604	48604	487604	20	.7874	52	2.0472	19	.7480	.591	2 ¹⁷ / ₆₄	.042	.136
8605	87605	48605	487605	25	.9843	62	2.4409	21	.827	.669	2 ²¹ / ₃₂	.065	.190
8606	87606	48606	487606	30	1.1811	72	2.8346	23	.9055	.748	3 ⁵ / ₆₄	.065	.190
8607	87607	48607	487607	35	1.3780	80	3.1496	25	.9843	.827	3 ¹³ / ₃₂	.065	.190
8608	87608	48608	487608	40	1.5748	90	3.5433	27	1.0630	.906	3 ⁵¹ / ₆₄	.095	.220
8609	87609	48609	487609	45	1.7717	100	3.9370	30	1.1811	.984	4 ³ / ₁₆	.095	.220

NEED HELP ON BEARINGS—CALL US

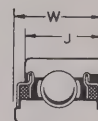
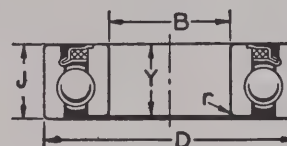
NEW DEPARTURE BALL BEARINGS SINGLE ROW FELT-SEALED TYPES

WIDE CUP—"WC" PREFIX SERIES



New Departure Wide Cup Seal Bearings are of the non loading groove type. They are similar to Type 3000 and in most cases have the same number and size of balls. In Type WC-8000 bearings, the outer ring width (J) is equal to the total overall width of similar size Type 8000 bearings. The outer ring is extended so as to be flush with the inner ring on one face.

These bearings are self contained, furnished completely lubricated, ready for service. For radial or combined loads in either direction.



WC8000 WC48000 WC87000 WC487000 WC88000 WC488000

BEARING SIZE NUMBER						BORE (B)		DIAMETER (D)		WIDTH (J) Outer Race		Double Seal Width (W)
Single Seal	Sn. Ring 1 Seal	Shield & Seal	Sn. Ring Sh. & Sl.	Double Seal	Sn. Ring 2 Seals	Mm	Inches	Mm	Inches	Mm	Inches	
*WC-8006	.....	*WC-87006	.....	WC-88006	.....	6	.2362	24	.9449	10.3	.406	.4970
*WC-8007	.....	*WC-87007	.....	WC-88007	.....	7	.2756	24	.9449	10.3	.406	.4970
*WC-8008	.....	*WC-87008	.....	*WC-88008	.....	8	.3150	24	.9449	10.3	.406	.4970
*WC-8009	WC-48009	*WC-87009	WC-487009	*WC-88009	WC-488009	9	.3543	30	1.1811	12.699	.500	.6457
WC-8011	WC-48011	*WC-87011	WC-487011	WC-88011	WC-488011	11	.4331	32	1.2598	12.699	.500	.6063
*WC-8013	WC-48013	*WC-87013	WC-487013	*WC-88013	WC-488013	13	.5118	32	1.2598	12.699	.500	.6063
*WC-8014	WC-48014	*WC-87014	WC-487014	*WC-88014	WC-488014	14	.5512	35	1.3780	12.699	.500	.5669
*WC-8016	WC-48016	*WC-87016	WC-487016	*WC-88016	WC-488016	16	.6299	35	1.3780	12.699	.500	.5669
WC-8026	WC-48026	WC-87026	WC-487026	WC-88026	WC-488026	26	1.0236	52	2.0472	15.87	.625	.6594
WC-8035	.....	WC-87035	.....	WC-88035	.....	5	.1969	19	.748	10.3	.406	.4970
*WC-8036	.....	*WC-87036	.....	*WC-88036	.....	6	.2362	19	.748	10.3	.406	.4970
*WC-8037	.....	*WC-87037	.....	*WC-88037	.....	7	.2756	22	.8661	10.3	.406	.4970
*WC-8038	.....	*WC-87038	.....	*WC-88038	.....	8	.3150	22	.8661	10.3	.406	.4970
*WC-8039	.....	*WC-87039	.....	*WC-88039	.....	9	.3543	26	1.0236	10.3	.406	.4970

*Available with metal slingers. Use prefix "C".

LIGHT SERIES

*WC-8500	*WC-48500	WC-87500	WC-487500	*WC-88500	WC-488500	10	.3937	30	1.1811	12.699	.500	.6457
*WC-8501	*WC-48501	WC-87501	WC-487501	*WC-88501	WC-488501	12	.4724	32	1.2598	12.699	.500	.6063
*WC-8502	*WC-48502	WC-87502	WC-487502	*WC-88502	WC-488502	15	.5906	35	1.3780	12.699	.500	.5669
*WC-8503	*WC-48503	WC-87503	WC-487503	*WC-88503	WC-488503	17	.6693	40	1.5748	14.299	.563	.6536
*WC-8504	*WC-48504	WC-87504	WC-487504	*WC-88504	*WC-488504	20	.7874	47	1.8504	15.87	.625	.6988
*WC-8505	*WC-48505	WC-87505	WC-487505	*WC-88505	*WC-488505	25	.9843	52	2.0472	15.87	.625	.6594
WC-8506	WC-48506	WC-87506	WC-487506	*WC-88506	*WC-488506	30	1.1811	62	2.4409	19.989	.787	.9449
WC-8507	*WC-48507	WC-87507	WC-487507	WC-88507	WC-488507	35	1.3780	72	2.8346	21	.827	.9843
WC-8508	WC-48508	WC-87508	WC-487508	WC-88508	WC-488508	40	1.5748	80	3.1496	25	.945	1.063
WC-8509	.....	WC-87509	.....	WC-88509	.....	45	1.7717	85	3.3465	25	.945	1.063
WC-8510	WC-48510	WC-87510	WC-487510	WC-88510	WC-488510	50	1.9685	90	3.5433	26	1.024	1.1811

*Available with metal slingers. Use prefix "C".

MEDIUM SERIES

WC-8603	WC-48603	WC-87603	WC-487603	*WC-88603	WC-488603	17	.6693	47	1.8504	16	.630	.7087
WC-8604	WC-48604	WC-87604	WC-487604	*WC-88604	*WC-488604	20	.7874	52	2.0472	19	.7480	.9055
*WC-8605	WC-48605	*WC-87605	WC-487605	WC-88605	WC-488605	25	.9843	62	2.4409	21	.827	.9843

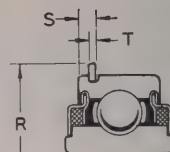
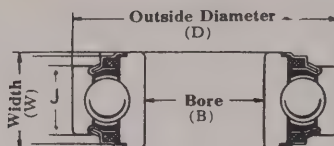
*Available with metal slingers. Use Prefix "C".

NEED HELP ON BEARINGS—CALL US

NEW DEPARTURE BALL BEARINGS FELT-SEALED TYPES



SERIES 88000



SERIES 488000

BEARING SIZE NO.		BORE (B)		DIAMETER (D)		WIDTH (W)		Outer Ring Width (J)	(R)	(T)	(S)
Double Seal	Sn. Ring 2 Seals	Mm	Inches	Mm	Inches	Mm	Inches				
88006	.....	6	.2362	24	.9449	12.62	.4970	.315	....	....	....
88007	.....	7	.2756	24	.9449	12.62	.4970	.315	....	....	....
•88008	.....	8	.3150	24	.9449	12.62	.4970	.315	....	....	....
88009	488009	9	.3543	30	1.1811	16.40	.6457	.354	1 ²³ / ₆₄	.042	.120
88011	488011	11	.4331	32	1.2598	15.40	.6063	.394	1 ⁷ / ₁₆	.042	.120
•88013	•488013	13	.5118	32	1.2598	15.40	.6063	.394	1 ⁷ / ₁₆	.042	.120
•88014	488014	14	.5512	35	1.3780	14.40	.5669	.433	1 ³⁵ / ₆₄	.042	.120
•88016	•488016	16	.6299	35	1.3780	14.40	.5669	.433	1 ³⁵ / ₆₄	.042	.120
•88026	•488026	26	1.0236	52	2.0472	16.75	.6594	.591	2 ¹⁷ / ₆₄	.042	.136
88035	.....	5	.1969	19	.748	12.6	.4970	.315	....	....	....
•88036	.....	6	.2362	19	.748	12.6	.4970	.315	....	....	....
•88037	.....	7	.2756	22	.8661	12.6	.4970	.315	....	....	....
•88038	.....	8	.3150	22	.8661	12.6	.4970	.315	....	....	....
•88039	.....	9	.3543	26	1.0236	12.6	.4970	.315	....	....	....
•88100	.....	16	.6263	35	1.3780	20.6	.8125	.433	....	....	....
88101*	.....	19	.7510	47	1.8504	22.4	.881	.551	....	....	....
88105	.....	20	.7874	47	1.8504	....	1.093	.551	....	....	....
88106	.....	20.6	.817	52	2.0472	41.2	1.625	.591	....	....	....
88107	.....	35	1.3780	72	2.8346	25	.9843	.669	....	....	....
88109	.....	42.05	1.6557	85	3.3465	27	1.063	.827	....	....	....
88110	.....	42.05	1.6557	90	3.5433	30	1.1811	.866	....	....	....
88120	.....	20	.7874	47	1.8504	20.8	.820	.551	....	....	....
88121	.....	34.9	1.3765	72	2.8346	25	.9843	.669	....	....	....
88123	.....	25.4	1.000	52	2.0472	16.7	.6596	.591	....	....	....
88124	.....	44.4	1.75	90	3.5433	30	1.1811	.866	....	....	....
88125	.....	12.7	.500	32	1.2598	15.4	.606	.394	....	....	....
88126	.....	15.8	.6240	35	1.3780	14.4	.567	.433	....	....	....
•88500	•488500	10	.3937	30	1.1811	16.4	.6457	.354	1 ²³ / ₆₄	.042	.120
•88501	•488501	12	.4724	32	1.2598	15.4	.6063	.394	1 ⁷ / ₁₆	.042	.120
•88502	•488502	15	.5906	35	1.3780	14.4	.5669	.433	1 ³⁵ / ₆₄	.042	.120
•88503	•488503	17	.6693	40	1.5748	16.6	.6536	.472	1 ³ / ₄	.042	.120
•88504	•488504	20	.7874	47	1.8504	17.8	.6988	.551	2 ¹ / ₁₆	.042	.136
•88505	•488505	25	.9843	52	2.0472	16.8	.6594	.591	2 ¹⁷ / ₆₄	.042	.136
•88506	•488506	30	1.1811	62	2.4409	24	.9449	.630	2 ²¹ / ₃₂	.065	.190
•88507	•488507	35	1.3780	72	2.8346	25	.9843	.669	3 ⁵ / ₆₄	.065	.190
•88508	488508	40	1.5748	80	3.1496	27	1.063	.827	3 ¹³ / ₃₂	.065	.190
•88509	488509	45	1.7717	85	3.3465	27	1.063	.827	3 ¹⁹ / ₃₂	.065	.190
88510	488510	50	1.9685	90	3.5433	30	1.1811	.866	3 ⁵¹ / ₆₄	.095	.220
88511	488511	55	2.1654	100	3.9370	31	1.2204	.906	4 ³ / ₁₆	.095	.220
88512	488512	60	2.3622	110	4.3307	33	1.2992	.984	4 ³⁷ / ₆₄	.095	.220
88513	488513	65	2.5591	120	4.7244	36	1.4173	1.024	5 ³ / ₃₂	.109	.265

MEDIUM SERIES

88602	488602	15	.5906	42	1.6535	17	.6693	.512	1 ¹³ / ₁₆	.042	.120
•88603	488603	17	.6693	47	1.8504	18	.7087	.551	2 ¹ / ₁₆	.042	.136
•88604	488604	20	.7874	52	2.0472	23	.9055	.591	2 ¹⁷ / ₆₄	.042	.136
•88605	488605	25	.9843	62	2.4409	25	.9843	.669	2 ²¹ / ₃₂	.065	.190
•88606	488606	30	1.1811	72	2.8346	27	1.0630	.748	3 ⁵ / ₆₄	.065	.190
88607	488607	35	1.3780	80	3.1496	29	1.1417	.827	3 ¹³ / ₃₂	.065	.190
88608	488608	40	1.5748	90	3.5433	31	1.2205	.906	3 ⁵¹ / ₆₄	.095	.220
88609	488609	45	1.7717	100	3.9370	35	1.3780	.984	4 ³ / ₁₆	.095	.220

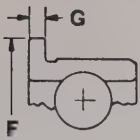
*Obsolete. Check for availability.

*Available with metal slinger type seal. Use prefix "C".

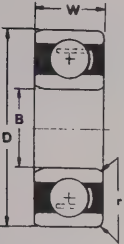
NEED HELP ON BEARINGS—CALL US

NEW DEPARTURE INSTRUMENT BEARINGS

STAINLESS STEEL MINIATURE INCH SERIES Specify "B.E.C.-5".



Flange
(Prefix N)

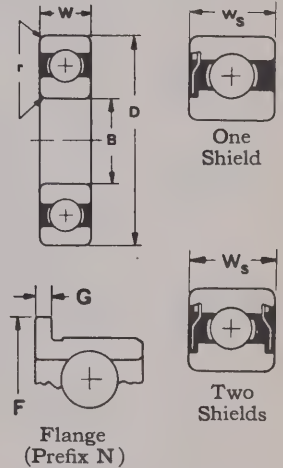


Manufactured to B.E.C.7 except for bore which is B.E.C.5. Single shielded flange bearings have shield on flange side. Shields are removable "RS" type. Radial Play and Lubricant must be specified.

Bearing Number	Bore B		Dia. D		Width W	Flange		Bearing Number One Shield	Bearing Number Two Shields	Width W Shielded	
	Frac.	Dec.	Frac.	Dec.		F	G			Dec.	G
M0310	$\frac{3}{64}$ "	.0469	$\frac{5}{32}$ "	.1562	.0625	...	...	7M0310	77M0310	.0937	...
NM0310	$\frac{3}{64}$ "	.0469	$\frac{5}{32}$ "	.1562	.0652	.203	.013	7NM0310	77NM0310	.0937	.031
M0412A	.0550	.0550	$\frac{5}{16}$ "	.1875	.0781	...	...	7M0412A	77M0412A	.1094	...
NM0412A	.0550	.0550	$\frac{5}{16}$ "	.1875	.0781	.234	.023	7NM0412A	77NM0412A	.1094	.031
M0516	$\frac{5}{64}$ "	.0781	$\frac{1}{4}$ "	.2500	.0937	...	...	7M0516	77M0516	.1406	...
NM0516	$\frac{5}{64}$ "	.0781	$\frac{1}{4}$ "	.2500	.0937	.296	.023	7NM0516	77NM0516	.1406	.031
M0612	$\frac{3}{32}$ "	.0937	$\frac{5}{16}$ "	.1875	.0625	...	...	7M0612	77M0612	.0937	...
NM0612	$\frac{3}{32}$ "	.0937	$\frac{5}{16}$ "	.1875	.0625	.234	.018	7NM0612	77NM0612	.0937	.031
M0620	$\frac{3}{32}$ "	.0937	$\frac{5}{16}$ "	.3125	.1094	...	...	7M0620	77M0620	.1406	...
NM0620	$\frac{3}{32}$ "	.0937	$\frac{5}{16}$ "	.3125	.1094	.359	.023	7NM0620	77NM0620	.1406	.031
M0816	$\frac{1}{8}$ "	.1250	$\frac{3}{4}$ "	.2500	.0937	...	...	7M0816	77M0816	.1094	...
NM0816	$\frac{1}{8}$ "	.1250	$\frac{3}{4}$ "	.2500	.0937	.296	.023	7NM0816	77NM0816	.1094	.031
M0820	$\frac{1}{8}$ "	.1250	$\frac{3}{4}$ "	.3125	.1094	...	...	7M0820	77M0820	.1406	...
NM0820	$\frac{1}{8}$ "	.1250	$\frac{3}{4}$ "	.3125	.1094	.359	.023	7NM0820	77NM0820	.1406	.031
M1020	$\frac{1}{8}$ "	.1562	$\frac{5}{16}$ "	.3125	.1094	...	...	7M1020	77M1020	.1250	...
NM1020	$\frac{1}{8}$ "	.1562	$\frac{5}{16}$ "	.3125	.1094	.359	.023	7NM1020	77NM1020	.1250	.036
M1220	$\frac{1}{8}$ "	.1875	$\frac{5}{16}$ "	.3125	.1094	...	...	7M1220	77M1220	.1250	...
NM1220	$\frac{1}{8}$ "	.1875	$\frac{5}{16}$ "	.3125	.1094	.359	.023	7NM1220	77NM1220	.1250	.036
M1224	$\frac{1}{8}$ "	.1875	$\frac{5}{16}$ "	.3750	.1250	...	...	7M1224	77M1224	.1250	...
NM1224	$\frac{1}{8}$ "	.1875	$\frac{5}{16}$ "	.3750	.1250	.422	.023	7NM1224	77NM1224	.1250	.031
M1624	$\frac{1}{4}$ "	.2500	$\frac{3}{8}$ "	.3750	.1250	...	...	7M1624	77M1624	.1250	...
NM1624	$\frac{1}{4}$ "	.2500	$\frac{3}{8}$ "	.3750	.1250	.422	.023	7NM1624	77NM1624	.1250	.036
M1632	$\frac{1}{4}$ "	.2500	$\frac{1}{2}$ "	.5000	.1250	...	...	7M1632	77M1632	.1875	...
NM1632	$\frac{1}{4}$ "	.2500	$\frac{1}{2}$ "	.5000	.1250	.547	.023	7NM1632	77NM1632	.1875	.045
M2032	$\frac{5}{16}$ "	.3125	$\frac{1}{2}$ "	.5000	.1562	...	...	7M2032	77M2032	.1562	...
NM2032	$\frac{5}{16}$ "	.3125	$\frac{1}{2}$ "	.5000	.1562	.547	.031	7NM2032	77NM2032	.1562	.031

INCH AND METRIC SERIES Shields are removable.

Bearing	Bore B		Dia. D		Width W	Flange		Bearing Number One Shield	Bearing Number Two Shields	Width Ws Shielded or Flanged
	Frac.	Dec.	Frac.	Dec.		F	G			Dec.
R2	$\frac{1}{8}$	.1250	$\frac{3}{8}$	.3750	.1562	...	...	RS7R2	RS77R2	.1562
NR2	$\frac{1}{8}$	.1250	$\frac{3}{8}$	.3750	.1562	.440	.030	RS7NR2	RS77NR2	.1562
R2A	$\frac{1}{8}$	.1250	$\frac{1}{2}$	.5000	.1719	...	...	RS7R2A	RS77R2A	.1719
R3D*	$\frac{3}{16}$	.1875	$\frac{1}{2}$	.5000	.1562	...	...	RS7R3D	RS77R3D	.1960
NR3D*	$\frac{3}{16}$	.1875	$\frac{1}{2}$	.5000	.1960	.565	.042	RS7NR3D	RS77NR3D	.1960
R4D*	$\frac{1}{4}$	.2500	$\frac{5}{8}$	.6250	.1960	...	...	RS7R4D	RS77R4D	.1960
NNR4D	$\frac{1}{4}$	.2500	$\frac{5}{8}$	.6250	.1960	.690	.042	RS7NRR4D	RS77NRR4D	.1960
R4AC*	$\frac{1}{4}$	.2500	$\frac{3}{4}$	.7500	.2188	...	...	RS7R4A	RS77R4A	.2812
R6DD*	$\frac{3}{8}$	.3750	$\frac{1}{8}$	.8750	.2188	...	...	RS7R6DD	RS77R6DD	.2812
NR6DD*	$\frac{3}{8}$	.3750	$\frac{1}{8}$	.8750	.2188	.969	.062	RS7NR6DD	RS77NR6DD	.2812
34D*	4 mm.	.1575	16 mm.	.6299	.1969	...	...	RS7034D	RS77034D	.1969
35U*	5 mm.	.1969	19 mm.	.7480	.2362	...	...	RS7035U	RS77035U	.2362
36U*	6 mm.	.2362	19 mm.	.7480	.2362	...	...	RS7036U	RS77036U	.2362
37U*	7 mm.	.2756	22 mm.	.8661	.2756	...	...	RS7037U	RS77037U	.2756
38U*	8 mm.	.3150	22 mm.	.8661	.2756	...	...	RS7038U	RS77038U	.2756



Two Shields

Flange
(Prefix N)

Note. Single shielded bearings have shield on flanged side.
*Larger race curvatures than standard provide lower torque characteristics.

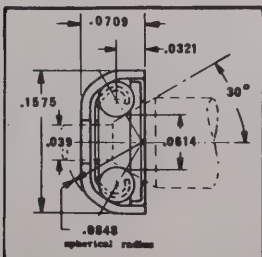
BEARINGS WITH FLANGED OUTER RING TAPERED O.D. Shields are removable.

Bearing Number	Bore B		*Dia. D	W Width inner ring	W1 Width outer ring	C		Flange		Bearing Number	Width Shielded	
	Frac.	Dec.				F	G	F	G		WS	WX
NR3HA	$\frac{3}{16}$	.1875	.4382	.189	.163	.016	.500	.042	.042	RS77NR3HA	.163	.189
NR3H	$\frac{3}{16}$	.1875	.5632	.218	.195	.016	.625	.042	.042	†RS77NR3HC	.195	.218
NR4H	$\frac{1}{4}$	.2500	.6257	.250	.226	.016	.687	.042	.042	RS77NR3H	.226	.250
NR5H	$\frac{5}{16}$	.3125	.6882	.250	.226	.016	.750	.042	.042	RS77NR4H	.226	.250
										RS77NR5H	.226	.250

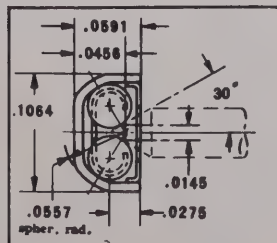
*O.D. taper in. per foot .080 on diameter.

†Stainless Steel only.

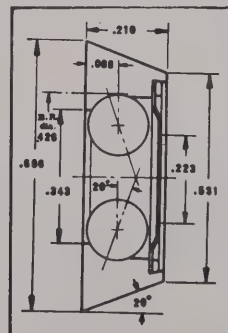
MISCELLANEOUS INSTRUMENT BEARINGS



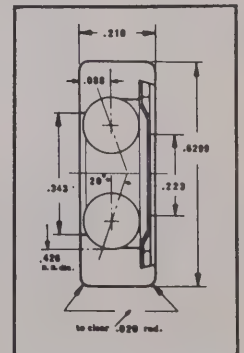
Pivot Bearing PF4
6—1 mm. balls



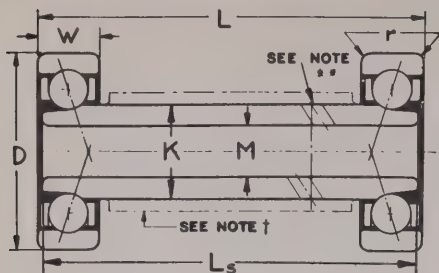
Pivot Bearing C270
3—1 mm. balls



Pivot Bearing 0105A
5— $\frac{5}{32}$ " balls



Pivot Bearing 0104A
5— $\frac{5}{32}$ " balls



NEW DEPARTURE BALL BEARINGS INSTRUMENT BEARINGS—Cont'd

GYRO ROTOR SHAFT ASSEMBLIES

Bearing outer ring and separator-ball assemblies with removable shaft for high speed gyro rotor applications.

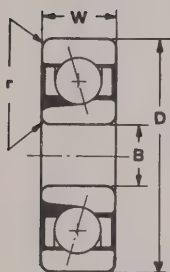
Shaft and Bearing Assembly No.	Outer Ring and Ball Assembly No.	Shaft No.	M	D		W		L	Ls	K†
				Frac.	Dec.	Frac.	Dec.			
QR2BE**	QR2BC	R2BE	$\frac{7}{64}$	$\frac{3}{8}$	.3750	$\frac{5}{16}$	.1562	1.625	1.625	.2032
QR3BD	QR3BC	R3BD	.141	$\frac{1}{4}$	.5000	$\frac{5}{16}$	.1562	1.688	1.688	.2760
QR3BE	QR3BEC	R3BE	.103	$\frac{1}{4}$	.5000	.....	.1960	1.719	1.700	.2509
QR4BD	QR4BC	R4BD	.250	$\frac{3}{8}$	.6250	.....	.1960	.947	.827	.4375
Q34BD	Q34BC	34BD	.1575	16 mm.	.6299	5 mm.	.1969	1.192	1.192	.3003
Q36BD	Q36BC	36BD	.218	19 mm.	.7480	6 mm.	.2362	2.156	2.156	.3860
Q38BD	Q38BC	38BD	.297	22 mm.	.8661	7 mm.	.2756	1.560	1.410	.6250
QR3BEG	QR3BEC	R3BEC	....	$\frac{1}{2}$	.5000	.....	.1960	1.861	1.838	.2030

†"K" for QR4BD and Q38BD is larger than raceway shoulder diameter.

**QR2BE shaft has two .059 holes at angle of 35°, located 1.172 from end of shaft.

GYRO ROTOR BEARINGS

With one-piece, non-metallic separators for high speed applications. Inner rings are removable.



Bearing Number	O.R. & Ball Assembly	I.R. Number	Bore B		Dia. D		Width W	
			Frac.	Dec.	Frac.	Dec.	Frac.	Dec.
QR1½B***	QR1½BC	R1½B	$\frac{3}{8}$	.0937	$\frac{5}{16}$	.3125	$\frac{7}{64}$	.1094
QR2B	QR2BC	R2B	$\frac{1}{2}$	.1250	$\frac{3}{8}$	.3750	$\frac{1}{4}$	.1562
QR3B	QR3BC	R3B	$\frac{5}{16}$	.1875	$\frac{1}{4}$	.5000	$\frac{5}{32}$	.1562
QR4B	QR4BC	R4B	$\frac{1}{4}$	.2500	$\frac{3}{8}$	.6250	.....	.1960
Q34B	Q34BC	34B	4 mm.	.1575	16 mm.	.6299	5 mm.	.1969
Q34B5	Q34BC	34B-5	5 mm.	.1969	16 mm.	.6299	5 mm.	.1969
Q36B	Q36BC	36B	6 mm.	.2362	19 mm.	.7480	6 mm.	.2362
Q38B	Q38BC	38B	8 mm.	.3150	22 mm.	.8661	7 mm.	.2756
Q3200B	Q3200BC	3200B	10 mm.	.3937	30 mm.	1.1811	9 mm.	.3543
.....	QR3BEC*	.....	.....	.....	$\frac{1}{2}$	.5000	.....	.1960

*QR3BEC can be matched with either R3BE or R3BEC shafts.

Has no I.R.

***Has .144 width separator.

GIMBAL AND SYNCHRO BEARINGS WITH SPRING SEPARATORS

Bearing Number	Bore B		Dia. D		Width W		Flange		Bearing Number One Shield	Bearing Number Two Shields	Ws Width Shielded
	Frac.	Dec.	Frac.	Dec.	Frac.	Dec.	F	G			

GIMBAL BEARINGS

SR2	$\frac{1}{8}$	.1250	$\frac{3}{8}$	.3750	$\frac{5}{16}$	.1562	.....	.....	RS7SR2	RS77SR2	.1562
SNR2	$\frac{1}{8}$	.1250	$\frac{3}{8}$	.3750	$\frac{5}{16}$	.1562	.440	.030	RS7SNR2	RS77SNR2	.1562
SR3D	$\frac{1}{8}$	.1875	$\frac{3}{8}$	.5000	$\frac{5}{16}$	.1562	.....	.....	RS7SR3D	RS77SR3D	.1960
SNR3D	$\frac{1}{8}$	.1875	$\frac{3}{8}$	.5000	.....	.1960	.565	.042	RS7SNR3D	RS77SNR3D	.1960
SR3J	$\frac{1}{8}$	.1875	$\frac{3}{8}$	.5000	$\frac{5}{16}$	.1562	.....	.....	RS7SR3J	RS77SR3J	.1562
SNR3J	$\frac{1}{8}$	.1875	$\frac{3}{8}$	.5000	$\frac{5}{16}$	.1562	.875	.052	RS7SNR3J	RS77SNR3J	.1562
SR4D	$\frac{1}{4}$	.2500	$\frac{3}{8}$	.6250	.....	.1960	.....	.....	RS7SR4D	RS77SR4D	.1960
SNR4D	$\frac{1}{4}$	.2500	$\frac{3}{8}$	.6250	.....	.1960	.690	.042	RS7SNR4D	RS77SNR4D	.1960
SR6DD	$\frac{3}{8}$	.3750	$\frac{3}{8}$	.8750	$\frac{7}{16}$	.2188	.....	.....	RS7SR6DD	RS77SR6DD	.2812
SNR6DD	$\frac{3}{8}$	.3750	$\frac{3}{8}$	.8750	$\frac{7}{16}$	.2812	.969	.062	RS7SNR6DD	RS77SNR6DD	.2812

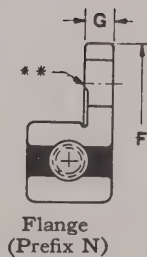
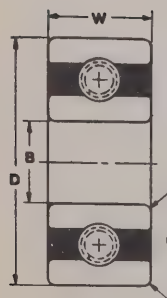
SYNCHRO BEARINGS

CSR3D	$\frac{3}{16}$	.1875	$\frac{1}{2}$	.5000	$\frac{5}{16}$	.1562	.....	.....	RS7CSR3D	RS77CSR3D	.1960
CSNR3D	$\frac{3}{16}$	.1875	$\frac{1}{2}$	.5000	.....	.1960	.565	.042	RS7CSNR3D	RS77CSNR3D	.1960
CSR4D	$\frac{1}{4}$	.2500	$\frac{3}{8}$	.6250	.....	.1960	.....	.....	RS7CSR4D	RS77CSR4D	.1960
CSNNR4D	$\frac{1}{4}$	.2500	$\frac{3}{8}$	.6250	.....	.1960	.690	.042	RS7CSNNR4D	RS77CSNNR4D	.1960
CSR6DD	$\frac{3}{8}$	.3750	$\frac{3}{8}$	.8750	$\frac{7}{16}$	.2188	.....	.....	RS7CSR6DD	RS77CSR6DD	.2812
CSNR6DD	$\frac{3}{8}$	.3750	$\frac{3}{8}$	.8750	$\frac{7}{16}$	.2812	.969	.062	RS7CSNR6DD	RS77CSNR6DD	.2812
CS35F	5 mm.	.1969	19 mm.	.7480	6 mm.	.2362	.....	.....	CSRS7035F	CSRS77035F	.2362
CS36F	6 mm.	.2362	19 mm.	.7480	6 mm.	.2362	.....	.....	CSRS7036F	CSRS77036F	.2362
CS37F	7 mm.	.2756	22 mm.	.8661	7 mm.	.2756	.....	.....	CSRS7037F	CSRS77037F	.2756
CS38F	8 mm.	.3150	22 mm.	.8661	7 mm.	.2756	.....	.....	CSRS7038F	CSRS77038F	.2756

**3—.109 holes in flange, spaced 120° on .812 circle.

"SR" series are designed for Gimbals and other zero r.p.m. to very slow speed applications.

Bearings CSR3D to CS38F are fitted with close wound spring separators for synchros or other applications with speeds generally under 2000 r.p.m.



Flange
(Prefix N)



One
Shield



Two
Shields

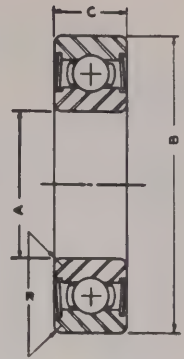
Shields are removable.

NICE BALL BEARINGS SOLID RACE TYPE 1600 and 3000 Series



Series "1600" bearings are precision ground on all surfaces with exceptional care devoted to the ball grooves. They provide a line of low cost yet high quality bearings for adaptation to a majority of precision bearing applications and are recommended for medium loads and for maximum speeds in the neighborhood of 5000 R.P.M.

Series "3000" bearings are finish ground to the same close tolerance on the O.D. as the "1600" series, and are also ground in the ball groove of the outer race of No. 3014 and up when necessary to provide the required fit-up. A ball retainer, or separator, is employed, which construction increases the range of allowable speeds by reducing ball contact friction. They are recommended for lighter loads and for speeds of approximately 2500 R.P.M.



1600 SERIES (GROUND)

BEARING NUMBERING					DIMENSIONS				
					A		B		C
No Shields NS	Single Shield SS	Double Shield DS	Single Comp. SC	Double Comp. DC	Inches	Tolerance +.0000 to Minus	Inches	Tolerance +.0000 to Minus	Tolerance +.000 to -.005
1601NS	1601SS	1601DS	1601SC	1601DC	$\frac{3}{16}$	-.001	$\frac{11}{16}$	-.0005	$\frac{1}{4}$
1602NS	1602SS	1602DS	1602SC	1602DC	$\frac{1}{4}$	-.001	$\frac{11}{16}$	-.0005	$\frac{1}{4}$
*1603NS	*1603SS	*1603DS	*1603SC	*1603DC	$\frac{5}{16}$	-.001	$\frac{7}{8}$	-.0005	$\frac{1}{2}$
1604NS	1604SS	1604DS	1604SC	1604DC	$\frac{3}{8}$	-.001	$\frac{7}{8}$	-.0005	$\frac{1}{2}$
1605NS	1605SS	1605DS	1605SC	1605DC	$\frac{7}{16}$	-.001	$\frac{29}{32}$	-.0005	$\frac{5}{16}$
1606NS	1606SS	1606DS	1606SC	1606DC	$\frac{3}{8}$	-.001	$\frac{29}{32}$	-.0005	$\frac{5}{16}$
1607NS	1607SS	1607DS	1607SC	1607DC	$\frac{7}{16}$	-.001	$\frac{29}{32}$	-.0005	$\frac{5}{16}$
1614NS	1614SS	1614DS	1614SC	1614DC	$\frac{3}{8}$	-.001	$1\frac{1}{8}$	-.0005	$\frac{3}{8}$
1615NS	1615SS	1615DS	1615SC	1615DC	$\frac{7}{16}$	-.001	$1\frac{1}{8}$	-.0005	$\frac{3}{8}$
1616NS	1616SS	1616DS	1616SC	1616DC	$\frac{1}{2}$	-.0005	$1\frac{1}{8}$	-.0005	$\frac{3}{8}$
*1620NS	*1620SS	*1620DS	*1620SC	*1620DC	$\frac{7}{16}$	-.001	$1\frac{3}{8}$	-.0005	$\frac{7}{16}$
1621NS	1621SS	1621DS	1621SC	1621DC	$\frac{1}{2}$	-.0005	$1\frac{3}{8}$	-.0005	$\frac{7}{16}$
*1622NS	*1622SS	*1622DS	*1622SC	*1622DC	$\frac{29}{32}$	-.0005	$1\frac{3}{8}$	-.0005	$\frac{7}{16}$
1623NS	1623SS	1623DS	1623SC	1623DC	$\frac{29}{32}$	-.0005	$1\frac{3}{8}$	-.0005	$\frac{7}{16}$
1628NS	1628SS	1628DS	1628SC	1628DC	$\frac{1}{2}$	-.0005	$1\frac{3}{8}$	-.0005	$\frac{1}{2}$
*1629NS	*1629SS	*1629DS	*1629SC	*1629DC	$\frac{11}{16}$	-.0005	$1\frac{3}{8}$	-.0005	$\frac{1}{2}$
1630NS	1630SS	1630DS	1630SC	1630DC	$\frac{3}{4}$	-.0005	$1\frac{3}{8}$	-.0005	$\frac{1}{2}$
*1633NS	*1633SS	*1633DS	*1633SC	*1633DC	$\frac{5}{8}$	-.0005	$1\frac{3}{4}$	-.0005	$\frac{1}{2}$
*1634NS	*1634SS	*1634DS	*1634SC	*1634DC	$\frac{11}{16}$	-.0005	$1\frac{3}{4}$	-.0005	$\frac{1}{2}$
1635NS	1635SS	1635DS	1635SC	1635DC	$\frac{3}{4}$	-.0005	$1\frac{3}{4}$	-.0005	$\frac{1}{2}$
1638NS	1638SS	1638DS	1638SC	1638DC	$\frac{3}{4}$	-.0005	2	-.0006	$\frac{9}{16}$
*1639NS	*1639SS	*1639DS	*1639SC	*1639DC	$\frac{13}{16}$	-.0005	2	-.0006	$\frac{9}{16}$
1640NS	1640SS	1640DS	1640SC	1640DC	$\frac{7}{8}$	-.0005	2	-.0006	$\frac{9}{16}$
1641NS	1641SS	1641DS	1641SC	1641DC	1	-.0005	2	-.0006	$\frac{9}{16}$
1652NS	1652SS	1652DS	1652SC	1652DC	$1\frac{1}{8}$	-.0005	$2\frac{1}{2}$	-.0006	$\frac{5}{8}$
1654NS	1654SS	1654DS	1654SC	1654DC	$1\frac{1}{4}$	-.0005	$2\frac{1}{2}$	-.0006	$\frac{5}{8}$
1657NS	1657SS	1657DS	1657SC	1657DC	$1\frac{1}{2}$	-.0005	$2\frac{1}{2}$	-.0006	$\frac{11}{16}$
*1658NS	*1658SS	*1658DS	*1658SC	*1658DC	$1\frac{1}{2}$	-.0005	$2\frac{1}{2}$	-.0006	$\frac{11}{16}$

3000 SERIES (SEMI-GROUND)

						Tolerance -.000 to Plus		Tolerance +.0000 to Minus	Tolerance +.005 to -.005
3001NS	3001SS	3001DS	3001SC	3001DC	$\frac{3}{16}$	+.005	$\frac{11}{16}$	-.0005	$\frac{1}{4}$
3002NS	3002SS	3002DS	3002SC	3002DC	$\frac{1}{4}$	+.005	$\frac{11}{16}$	-.0005	$\frac{1}{4}$
*3003NS	*3003SS	*3003DS	*3003SC	*3003DC	$\frac{5}{16}$	+.005	$\frac{7}{8}$	-.0005	$\frac{1}{2}$
3004NS	3004SS	3004DS	3004SC	3004DC	$\frac{3}{8}$	+.005	$\frac{7}{8}$	-.0005	$\frac{1}{2}$
3005NS	3005SS	3005DS	3005SC	3005DC	$\frac{7}{16}$	+.005	$\frac{29}{32}$	-.0005	$\frac{5}{16}$
3006NS	3006SS	3006DS	3006SC	3006DC	$\frac{3}{8}$	+.005	$\frac{29}{32}$	-.0005	$\frac{5}{16}$
3007NS	3007SS	3007DS	3007SC	3007DC	$\frac{7}{16}$	+.005	$\frac{29}{32}$	-.0005	$\frac{5}{16}$
3014NS	3014SS	3014DS	3014SC	3014DC	$\frac{3}{8}$	+.005	$1\frac{1}{8}$	-.0005	$\frac{3}{8}$
3015NS	3015SS	3015DS	3015SC	3015DC	$\frac{7}{16}$	+.005	$1\frac{1}{8}$	-.0005	$\frac{3}{8}$
3016NS	3016SS	3016DS	3016SC	3016DC	$\frac{1}{2}$	+.005	$1\frac{1}{8}$	-.0005	$\frac{3}{8}$
*3020NS	*3020SS	*3020DS	*3020SC	*3020DC	$\frac{7}{16}$	+.005	$1\frac{3}{8}$	-.0005	$\frac{7}{16}$
3021NS	3021SS	3021DS	3021SC	3021DC	$\frac{1}{2}$	+.005	$1\frac{3}{8}$	-.0005	$\frac{7}{16}$
*3022NS	*3022SS	*3022DS	*3022SC	*3022DC	$\frac{29}{32}$	+.005	$1\frac{3}{8}$	-.0005	$\frac{7}{16}$
3023NS	3023SS	3023DS	3023SC	3023DC	$\frac{29}{32}$	+.005	$1\frac{3}{8}$	-.0005	$\frac{7}{16}$
3028NS	3028SS	3028DS	3028SC	3028DC	$\frac{1}{2}$	+.005	$1\frac{3}{8}$	-.0005	$\frac{1}{2}$
*3029NS	*3029SS	*3029DS	*3029SC	*3029DC	$\frac{11}{16}$	+.005	$1\frac{3}{8}$	-.0005	$\frac{1}{2}$
3030NS	3030SS	3030DS	3030SC	3030DC	$\frac{3}{4}$	+.005	$1\frac{3}{8}$	-.0005	$\frac{1}{2}$
*3033NS	*3033SS	*3033DS	*3033SC	*3033DC	$\frac{5}{8}$	+.005	$1\frac{3}{4}$	-.0005	$\frac{1}{2}$
*3034NS	*3034SS	*3034DS	*3034SC	*3034DC	$\frac{11}{16}$	+.005	$1\frac{3}{4}$	-.0005	$\frac{1}{2}$
3035NS	3035SS	3035DS	3035SC	3035DC	$\frac{3}{4}$	+.005	$1\frac{3}{4}$	-.0005	$\frac{1}{2}$
3038NS	3038SS	3038DS	3038SC	3038DC	$\frac{3}{4}$	+.005	2	-.0006	$\frac{9}{16}$
*3039NS	*3039SS	*3039DS	*3039SC	*3039DC	$\frac{13}{16}$	+.005	2	-.0006	$\frac{9}{16}$
3040NS	3040SS	3040DS	3040SC	3040DC	$\frac{7}{8}$	+.005	2	-.0006	$\frac{9}{16}$
3041NS	3041SS	3041DS	3041SC	3041DC	1	+.005	2	-.0006	$\frac{9}{16}$

*Width Dimension C for SC, DC Types = $\frac{1}{16}$.
•Check for availability.

†Width Dimension C for SC, DC Types = $1\frac{1}{4}$.

NICE BALL BEARINGS COMBINATION TYPE RADIAL THRUST BEARINGS

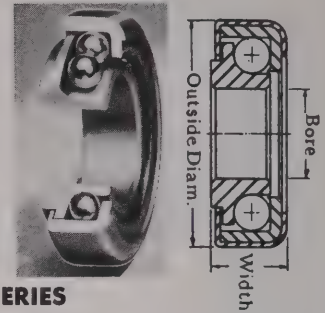
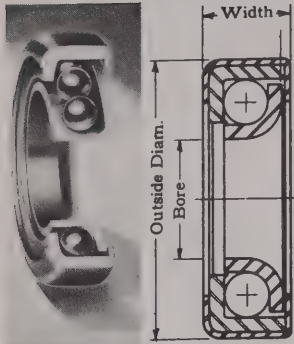
Unground 500 and 700 Series

Heavy gauge soft steel band retains the assembled races and permits an inexpensive press mounting by eliminating the need of close tolerance bearing nest fits.

High-quality steel balls, carefully hardened, ground and polished, of maximum diameter consistent with good bearing design, for maximum capacity.

Outer race, press formed from carburizing quality strip steel and carefully hardened.

500 Series inner races are press formed from carburizing quality strip steel and carefully hardened.



500 SERIES

Bearing No.	Bore	Outside Diameter	Width	Balls	
				No.	Size
501	1/4	11/16	1/4	11	1/8
501 1/2	5/16	11/16	7/32	15	3/32
•502	5/16	15/16	23/64	10	3/16
503	3/8	1 1/16	13/32	11	3/16
•504	7/16	1 3/16	7/32	20	3/32
5239	7/16	59/64	5/16	17	1/8
505	7/16	29/32	9/32	16	1/8
•506	29/64	29/32	9/32	16	1/8
507	7/16	13/64	23/64	11	3/16
5167	1/2	.917	17/64	17	1/8
5169	1/2	1 1/8	25/64	13	3/16
508	1/2	1 1/8	17/32	13	3/16
•5870	1/2	1 1/4	13/32	12	7/32
•509	1/2	1 3/8	31/64	11	1/4
•6402	17/32	1 1/4	13/32	12	7/32
510	9/16	1 3/8	29/64	13	7/32
•510 1/4	9/16	1 3/4	5/16	19	1/8
5937	5/8	1	1 1/4	20	1/8
6351	5/8	1 1/4	23/64	15	3/16
5275	5/8	1 3/8	15/32	12	1/4
•511	5/8	1 23/64	27/64	16	3/16
512	3/4	1 19/32	1/2	14	1/4
•6072	7/8	1 31/64	23/64	19	3/16
513	7/8	1 11/16	15/32	15	1/4
•6509	7/8	1 23/32	1/2	15	1/4
•514	7/8	1 59/64	19/32	13	5/16
•6394	877	1.370	21/64	22	5/32
•514 1/2	1 5/16	2 3/64	19/32	14	5/16
515	1	2 3/64	19/32	14	5/16
516	1 1/8	1 13/16	27/64	24	3/16
517	1 1/4	2.3075	19/32	17	5/16
•517 1/2	1 17/64	2.448	21/32	15	3/8
518	1 5/16	2.3075	39/64	19	9/32
•518 1/2	1 23/64	2.3075	9/16	22	1/4
•6516	1.377	2.8297	.877	16	3/8
519	1 1/2	2.7606	45/64	17	3/8
•520	1 1/2	3.1044	15/16	14	1/2
•6375	1.5738	3.1446	.940	16	7/16
•520 1/2	1 5/8	2.7606	39/64	21	5/16
521	1 3/4	3.0575	45/64	19	3/8
522	1 15/16	3.370	49/64	18	7/16
•6517	1.9675	3.5383	.940	19	7/16
•523	2 1/8	3.849	59/64	18	1/2
•6518	2.1644	3.9320	1.045	18	1/2
523 1/2	2 1/4	3.849	55/64	21	7/16
524	2 1/2	4.490	1 1/32	17	5/8
•524 1/2	2 3/4	4.490	29/32	22	1/2
525	3	4.365	3/4	30	3/8

*Check for availability.

700 SERIES

Bearing No.	Bore	Outside Diameter	Width	Balls	
				No.	Size
•701	1/8	11/16	9/32	11	1/8
•702	3/16	11/16	9/32	11	1/8
•703	1/4	15/16	25/64	10	3/16
703 1/4	1/4	3/4	19/64	12	1/8
704	5/16	1 3/64	7/16	11	3/16
705	3/8	1 23/64	17/32	11	1/4
•706	7/16	1 19/32	9/16	14	1/4
706 1/4	7/16	29/32	23/64	16	1/8
†5237	1/2	1 1/4	37/64	16	3/8
707	1/2	1 19/32	9/16	14	1/4
•5718	9/16	1 1/8	3/8	16	5/32
•708	9/16	1 19/32	9/16	14	1/4
709	5/8	1 59/64	11/16	13	5/16
•709 1/2	5/8	2 3/4	15/16	12	1/2
6183	3/4	1 11/16	9/16	18	7/32
710	3/4	2 3/64	41/64	14	5/16
5733	7/8	1 11/16	17/32	17	7/32
•711	7/8	2.3075	11/16	17	5/16
712	1	2.3075	11/16	17	5/16
•712 1/2	1	2.745	15/16	12	1/2
713	1 1/8	2.3075	11/16	17	5/16
•714	1 1/4	3.104	59/64	14	1/2
•715	1 3/8	3.104	59/64	14	1/2
•716	1 1/2	3.104	59/64	14	1/2
•717-1	1 5/8	3.849	1 1/32	18	1/2
•717	1 3/4	3.849	1 1/32	18	1/2
•718	1 15/16	3.849	1 1/32	18	1/2
•719	2	4.490	1 5/32	17	5/8
•720	2 5/16	4.490	1 5/32	17	5/8

*Bore of cone ground.

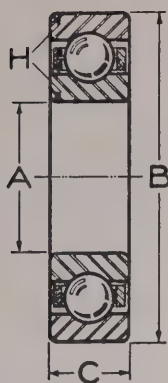
†Width of inner race is .434.

NICE "700" series bearings differ from the "500" group in that the inner race is turned from bar stock. The outer race, cold formed from solid strip steel is identical in construction to the "500" series.

As is the case with the "500" series, "700" series combination bearings are not recommended for straight radial loads unless by special arrangement provision is made to keep the cone in proper contact with the balls.

The "500" and "700" series bearings are recommended for applications where speeds do not exceed 1000 R.P.M. and also where a combination radial and thrust load is involved.

NORMA-HOFFMANN BALL BEARINGS SINGLE ROW — INCH TYPE



EXTRA LIGHT
XLS SERIES PRECISION BEARINGS
SOLVES BEARING SPACE
LIMITATION PROBLEMS

ADVANTAGES:

- Have unusually large bores, compared to outside diameters.
- Provide utmost in accuracy, rigidity, and load capacity.
- Are compact, light in weight.
- Allow greater freedom in design. In most cases these bearings provide the only solution where space is at a premium.

"XLS" EXTRA LIGHT SERIES

"XLS" EXTRA LIGHT SERIES (Continued)

Bearing No.	DIMENSIONS				BALLS	
	A	B	C	H	Size	No.
XLS 1 3/8	1 3/8	2 9/16	9/16	1/16	9/32	11
XLS 1 1/2	1 1/2	2 11/16	9/16	1/16	9/32	12
XLS 1 5/8	1 5/8	2 7/8	9/16	1/16	9/32	13
XLS 1 3/4	1 3/4	3	9/16	1/16	9/32	14
XLS 1 7/8	1 7/8	3 1/8	5/8	1/16	5/16	13
XLS 2	2	3 5/8	5/8	1/16	5/16	14
XLS 2 1/8	2 1/8	3 7/8	5/8	1/16	5/16	14
XLS 2 1/4	2 1/4	3 7/8	5/8	1/16	5/16	15
XLS 2 3/8	2 3/8	3 3/4	11/16	1/16	11/32	14
XLS 2 1/2	2 1/2	3 3/8	11/16	1/16	11/32	15
XLS 2 5/8	2 5/8	4 1/8	11/16	1/16	11/32	16
XLS 2 3/4	2 3/4	4 1/8	11/16	1/16	11/32	16
XLS 2 7/8	2 7/8	4 1/2	3/4	3/32	3/8	16
XLS 3	3	4 1/2	3/4	3/32	3/8	16
XLS 3 1/8	3 1/8	4 3/4	3/4	3/32	3/8	17
XLS 3 1/4	3 1/4	4 3/4	3/4	3/32	3/8	17
XLS 3 3/8	3 3/8	5	3/4	3/32	3/8	18
XLS 3 1/2	3 1/2	5	3/4	3/32	3/8	18
XLS 3 5/8	3 5/8	5 1/4	3/4	3/32	3/8	19
XLS 3 3/4	3 3/4	5 1/4	3/4	3/32	3/8	19
XLS 3 7/8	3 7/8	5 5/8	7/8	3/32	7/16	18
XLS 4	4	5 5/8	7/8	3/32	7/16	18
XLS 4 1/8	4 1/8	6	7/8	3/32	7/16	19
XLS 4 1/4	4 1/4	6	7/8	3/32	7/16	19
XLS 4 3/8	4 3/8	6 1/4	7/8	3/32	7/16	20
XLS 4 1/2	4 1/2	6 1/4	7/8	3/32	7/16	20
XLS 4 5/8	4 5/8	6 3/4	7/8	3/32	7/16	21
XLS 4 3/4	4 3/4	6 3/4	7/8	3/32	7/16	21
XLS 4 7/8	4 7/8	7	1	3/32	1/2	19
XLS 5	5	7	1	3/32	1/2	19
XLS 5 1/8	5 1/8	7 1/4	1	3/32	1/2	20
XLS 5 1/4	5 1/4	7 1/4	1	3/32	1/2	20

Bearing No.	DIMENSIONS				BALLS	
	A	B	C	H	Size	No.
XLS 5 3/8	5 3/8	7 1/2	1	3/32	1/2	21
XLS 5 1/2	5 1/2	7 1/2	1	3/32	1/2	21
XLS 5 5/8	5 5/8	7 3/4	1	3/32	1/2	22
XLS 5 3/4	5 3/4	7 3/4	1	3/32	1/2	22
*XLS 5 7/8	5 7/8	8	1	3/32	1/2	22
XLS 6	6	8	1	3/32	1/2	23
XLS 6 1/4	6 1/4	8 1/2	1 1/8	1/8	5/16	21
XLS 6 1/2	6 1/2	8 3/4	1 1/8	1/8	5/16	22
XLS 6 3/4	6 3/4	9	1 1/8	1/8	5/16	22
XLS 7	7	9 1/2	1 1/4	1/8	5/8	21
XLS 7 1/4	7 1/4	9 3/4	1 1/4	1/8	5/8	22
XLS 7 1/2	7 1/2	10	1 1/4	1/8	5/8	22
XLS 7 3/4	7 3/4	10 1/2	1 3/8	1/8	1 1/16	21
XLS 8	8	10 3/4	1 3/8	1/8	1 1/16	22
XLS 8 1/4	8 1/4	11	1 3/8	1/8	1 1/16	22
XLS 8 1/2	8 1/2	11 1/2	1 3/8	1/8	3/4	21
*XLS 8 3/4	8 3/4	11 3/4	1 3/8	1/8	3/4	22
XLS 9	9	12	1 3/8	1/8	3/4	22
XLS 9 1/2	9 1/2	12 3/4	1 3/8	1/8	13/16	22
XLS10	10	13 1/4	1 3/8	5/32	13/16	23
*XLS10 1/2	10 1/2	14	1 3/4	5/32	7/8	22
XLS11	11	14 1/2	1 3/4	5/32	7/8	23
XLS11 1/2	11 1/2	15 1/4	1 7/8	5/32	15/16	23
XLS12	12	16	2	3/16	1	23
XLS12 1/2	12 1/2	16 1/2	2	3/16	1	23
*XLS13	13	17 1/2	2 1/4	3/16	1 1/8	22
*XLS13 1/2	13 1/2	18	2 1/4	3/16	1 1/8	22
*XLS14	14	18 1/2	2 1/4	3/16	1 1/8	23
*XLS14 1/2	14 1/2	19 1/2	2 1/4	3/16	1 1/4	22
*XLS15	15	20	2 1/2	3/16	1 1/4	23
*XLS15 1/2	15 1/2	20 1/2	2 1/2	3/16	1 1/4	23

XLS
LS
MS
Series
Are

Equipped
With

Machined
Bronze
Retainers

"MS" MEDIUM SERIES

Bearing No.	A	B	C	H	Ball
	Inches	Inches	Inches	Inches	Size
LS 5	1 1/8	1 5/8	3/8	1/32	7/32
LS 7	1 1/4	1 7/8	3/8	1/32	9/32
LS 8	1 1/2	1 7/8	3/8	1/32	9/32
LS 9	1 3/8	2	3/8	1/32	9/32
LS10	1	2 1/4	3/8	1/16	5/16
LS11	1 1/8	2 1/2	3/8	1/16	5/16
LS12	1 1/4	2 3/4	11/16	1/16	11/32
LS12 1/2	1 3/8	3	11/16	1/16	3/8
LS13	1 1/2	3 1/4	3/4	1/16	7/16
LS13 1/2	1 3/8	3 1/2	3/4	1/16	7/16
LS14	1 3/4	3 3/4	13/16	1/8	1/2
LS14 1/2	1 7/8	4	13/16	1/8	1/2
LS15	2	4	1 1/16	1/8	1 1/8
LS16	2 1/4	4 1/2	7/8	1/8	1 1/8
LS17	2 1/2	5	15/16	1/8	1 1/2
LS18	2 3/4	5 1/4	15/16	1/8	1 1/2
LS19	3	5 3/4	1 1/16	1/8	1 3/4
LS19 1/2	3 1/4	6	1 1/16	1/8	1 3/4
LS20	3 1/2	6 1/2	1 3/8	1/8	1 3/4
*LS20 1/2	3 3/4	6 3/4	1 3/8	1/8	1 3/4
*LS21	4	7 1/4	1 1/4	1/8	7/8
*LS21 1/2	4 1/4	7 1/2	1 1/4	1/8	7/8
*LS22	4 1/2	8	1 5/8	1/8	15/16
*LS22 1/2	4 3/4	8 1/4	1 5/8	1/8	15/16
*LS23	5	9	1 3/4	1/8	1
*LS23 1/2	5 1/2	9 1/2	1 3/4	1/8	1 1/8
*LS24	6	10 1/2	1 5/8	1/8	1 1/8
*LS24 1/2	6 1/2	11	1 5/8	1/8	1 1/8
*LS25	7	12	1 3/4	1/8	1 1/4
LS25 1/2	7 1/2	12 1/2	1 3/4	1/8	1 1/4
*LS26	8	13	1 3/4	1/8	1 1/4

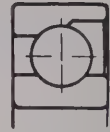
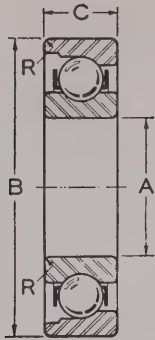
Bearing No.	A	B	C	H	Ball
	Inches	Inches	Inches	Inches	Size
MS 5	1 1/8	1 5/8	3/8	1/16	5/16
MS 7	1 1/4	1 7/8	3/8	1/16	5/16
MS 8	1 1/2	1 7/8	3/8	1/16	5/16
MS 9	1 3/8	2	3/8	1/16	5/16
MS10	1	2 1/4	3/8	3/32	7/16
*MS11	1 1/8	2 1/2	19/16	3/32	1/2
MS12	1 1/4	3 1/8	7/8	3/32	9/16
MS12 1/2	1 3/8	3 1/4	7/8	3/32	9/16
MS13	1 1/2	3 3/4	15/16	3/32	19/16
MS13 1/2	1 3/8	4	15/16	3/32	5/8
MS14	1 3/4	4 1/4	1 1/16	3/32	21/32
MS14 1/2	1 7/8	4 1/2	1 1/16	3/32	21/32
MS15	2	4 1/2	1 1/16	3/32	21/32
MS16	2 1/4	5	1 1/4	1/8	25/32
MS17	2 1/2	5 1/2	1 1/4	1/8	7/8
*MS18	2 3/4	6 1/4	1 3/8	1/8	1
*MS19	3	7	1 5/8	1/8	1 1/8
*MS19 1/2	3 1/4	7 1/2	1 5/8	1/8	1 1/8
*MS19 3/4	3 3/8	7 1/2	1 5/8	1/8	1 1/8
*MS20	3 1/2	8 1/8	1 3/4	1/8	1 1/4
*MS20 1/2	3 3/4	8 1/4	1 3/4	1/8	1 1/4
*MS21	4	8 1/2	1 3/4	1/8	1 1/4
*MS21 1/2	4 1/4	8 3/4	1 3/4	1/8	1 1/4
*MS22	4 1/2	9 3/8	2	3/16	1 5/8
*MS22 1/2	4 3/4	10	2	3/16	1 5/8
*MS23	5	10	2	3/16	1 3/8
*MS23 1/2	5 1/2	11	2	3/16	1 7/8
*MS24	6	12	2 1/4	3/16	1 11/16

*Consult for availability.

NORMA-HOFFMANN BALL BEARINGS

SEPARABLE (MAGNETO) METRIC TYPE

Separable Type Ball Bearings are sometimes referred to as "Magneto" bearings. Their separable construction affords quicker unit assembly and permits independent, and therefore rigid, mounting of both inner and outer rings. The bronze high speed retainer is of one piece channel construction and is machined throughout and balanced.



Bearing No.	BORE (A)		O. DIA. (B)		WIDTH (C)	
	Mm	Inches	Mm	Inches	Mm	Inches
E-5-4	4	0.1575	16	0.6299	5	0.197
E-5	5	0.1969	16	0.6299	5	0.197
E-8-6	6	0.2362	24	0.9449	7	0.276
E-8-7	7	0.2756	24	0.9449	7	0.276
E-8	8	0.3150	24	0.9449	7	0.276
E-9	9	0.3543	28	1.1024	8	0.315
E-10	10	0.3937	28	1.1024	8	0.315
E-11	11	0.4331	32	1.2598	7	0.276
E-12	12	0.4724	32	1.2598	7	0.276
E-13	13	0.5118	30	1.1811	7	0.276
E-14	14	0.5512	35	1.3780	8	0.315
E-15-B	15	0.5906	35	1.3780	8	0.315

Bearing No.	BORE (A)		O. DIA. (B)		WIDTH (C)	
	Mm	Inches	Mm	Inches	Mm	Inches
E-16	16	0.6299	38	1.4961	10	0.394
L-17	17	0.6693	40	1.5748	10	0.394
E-17	17	0.6693	44	1.7323	11	0.433
*E-17-10	17	0.6693	44	1.7323	10	0.394
M-17	17	0.6693	47	1.8503	14	0.551
*E-18	18	0.7087	40	1.5748	9	0.354
E-19	19	0.7480	40	1.5748	9	0.354
L-20	20	0.7874	47	1.8504	14	0.551
*M-20	20	0.7874	52	2.0472	15	0.591
L-25	25	0.9843	52	2.0472	15	0.591
*L-30	30	1.1811	62	2.4409	16	0.630

*Check for availability.

EXTRA LIGHT SINGLE ROW RADIAL TYPES

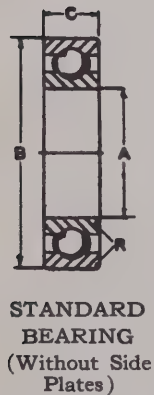
BEARING TYPE AND NO.			BORE (A)		O. DIA. (B)		WIDTH (C)			
Stand. No. (Without Side Plates)	With One Side Plate	With Two Side Plates	Mm	Inches	Mm	Inches	Std. Brg. (No Side Plates)		With One or Two Plates	
							Mm	Inches	Mm	Inches

"S" SERIES INCH TYPE (WITH RETAINERS)

N-463-R (R-2)	R-2-P	R-2-PP	...	1/8	...	3/8	...	5/32	...	5/32
4666-R (R-3)	R-3-P	R-3-PP	...	3/16	...	1/2	...	5/32	...	.196
XA-134-R (R-4)	XA-134-RP (R-4-P)	XA-134-R-PP (R-4-PP)	...	1/4	...	5/8	...	.196	...	.196
S-0-R	...	...	...	1/8	...	1/2	...	11/64	...	...
S-1-R	S-1-R-P	S-1-R-PP	...	1/4	...	3/4	...	7/32	...	9/32
S-3-R	S-3-R-P	S-3-R-PP	...	3/8	...	7/8	...	7/32	...	9/32
S-5-R	S-5-R-P	S-5-R-PP	...	1/2	...	1 1/8	...	1/4	...	5/16
S-7-R	S-7-R-P	S-7-R-PP	...	5/8	...	1 3/8	...	9/32	...	11/32
S-8-R	S-8-R-P	S-8-R-PP	...	3/4	...	1 5/8	...	5/16	...	7/16
S-9-R	S-9-R-P	S-9-R-PP	...	7/8	...	1 7/8	...	3/8	...	1/2
S-10-R	S-10-R-P	S-10-R-PP	...	1	...	2	...	3/8	...	1/2
S-11-R	S-11-R-P	S-11-R-PP	...	1 1/8	...	2 1/8	...	3/8	...	1/2
S-12-R	S-12-R-P	S-12-R-PP	...	1 1/4	...	2 1/4	...	3/8	...	1/2
S-12 1/2-R	S-12 1/2-R-P	S-12 1/2-R-PP	...	1 3/8	...	2 1/2	...	7/16	...	9/16
S-13-R	S-13-R-P	S-13-R-PP	...	1 1/2	...	2 5/8	...	7/16	...	9/16

"C" SERIES METRIC TYPE (WITH RETAINERS)

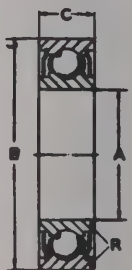
C-94	C-94-P	C-94-PP	4	.1575	16	.6299	5	.197	5	.197
C-95	C-95-P	C-95-PP	5	.1969	19	.7480	6	.236	6	.236
C-96	C-96-P	C-96-PP	6	.2362	19	.7480	6	.236	6	.236
C-97	C-97-P	C-97-PP	7	.2756	22	.8661	7	.276	7	.276
C-98	C-98-P	C-98-PP	8	.3150	22	.8661	7	.276	7	.276
C-99	C-99-P	C-99-PP	9	.3543	26	1.0236	8	.315	8	.315



STANDARD BEARING (Without Side Plates)



"P" TYPE (Plate on one side)



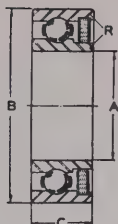
"PP" TYPE (Plates on both sides)

NORMA-HOFFMANN BALL BEARINGS

FELT SEAL TYPES

SINGLE ROW EXTRA LIGHT METRIC SERIES

(Non-Filling Slot Type)



"6000" TYPE

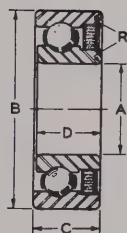


"6000-P" TYPE

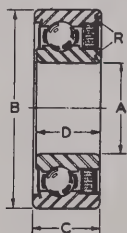
"6000" & "6000-P" SERIES

BEARING NUMBER		BORE (A)		OUTSIDE DIA. (B)		Overall Width (C)	Basic No.
Without Metal Shield	With Metal Shield	Mm	Inches	Mm	Inches	Inches	
6010	6010-P	10	.3937	26	1.0236	.453	6010
*6012	*6012-P	12	.4724	28	1.1024	.453	6012
*6013	*6013-P	13	.5118	28	1.1024	.453	6013
6015	6015-P	15	.5906	32	1.2598	.500	6015
*6016	*6016-P	16	.6299	32	1.2598	.500	6016
6017	6017-P	17	.6693	35	1.3780	.500	6017
*6020	*6020-P	20	.7874	42	1.6535	.563	6020
*6025	*6025-P	25	.9843	47	1.8504	.563	6025

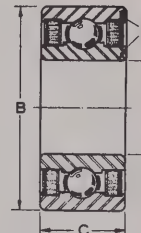
"7000," "7000-P" & "77000" SINGLE ROW SERIES



"7000" TYPE



"7000-P" TYPE



"77000" TYPE

"7000" & "7000-P" SERIES

"77000" SERIES

BEARING NO.		BORE (A)		OUTSIDE DIA. (B)		Overall Width (C)	Inner Ring Width (D)
With Felt Seal	With Felt Seal and Shield	Mm	Inches	Mm	Inches	Inches	Inches
7066	7066-P	6	.2362	19	.7480	.406	.390
7077	7077-P	7	.2756	22	.8661	.406	.390
7088	7088-P	8	.3150	22	.8661	.406	.390
*7006	*7006-P	6	.2362	24	.9449	.406	.390
7007	7007-P	7	.2756	24	.9449	.406	.390
7008	7008-P	8	.3150	24	.9449	.406	.390
7099	7099-P	9	.3543	26	1.0236	.453	.437
7009	7009-P	9	.3543	30	1.1811	.500	.484
7010	7010-P	10	.3937	30	1.1811	.500	.484
*7011	*7011-P	11	.4331	32	1.2598	.500	.484
7012	7012-P	12	.4724	32	1.2598	.500	.484
7013	7013-P	13	.5118	32	1.2598	.500	.484
*7014	*7014-P	14	.5512	35	1.3780	.500	.484
7015	7015-P	15	.5906	35	1.3780	.500	.484
7016	7016-P	16	.6299	35	1.3780	.500	.484
7017	7017-P	17	.6693	40	1.5748	.563	.547
*7603	7020	17	.6693	47	1.8504	.630	.605
7020	7020-P	20	.7874	47	1.8504	.625	.609
*7604	*7604-P	20	.7874	52	2.0472	.709	.684
7025	7025-P	25	.9843	52	2.0472	.625	.609
*7026	*7026-P	26	1.0236	52	2.0472	.625	.609
7030	7030-P	30	1.1811	62	2.4409	.787	.748
7035	7035-P	35	1.3780	72	2.8346	.827	.788
7040	7040-P	40	1.5748	80	3.1496	.906	.906
7045	7045-P	45	1.7717	85	3.3465	.945	.945
*7050	*7050-P	50	1.9685	90	3.5433	.984	.984

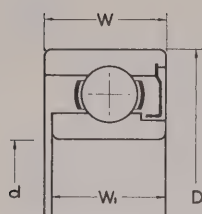
Bearing No.	BORE (A)		OUTSIDE DIA. (B)		Width (C)
	Mm	Inches	Mm	Inches	Inches
77066	6	.2362	19	.7480	.562
*77077	7	.2756	22	.8661	.562
*77088	8	.3150	22	.8661	.562
*77006	6	.2362	24	.9449	.562
*77007	7	.2756	24	.9449	.562
77008	8	.3150	24	.9449	.562
*77099	9	.3543	26	1.0236	.562
*77009	9	.3543	30	1.1811	.656
77010	10	.3937	30	1.1811	.656
*77011	11	.4331	32	1.2598	.656
77012	12	.4724	32	1.2598	.656
77013	13	.5118	32	1.2598	.656
77014	14	.5512	35	1.3780	.656
77015	15	.5906	35	1.3780	.656
77016	16	.6299	35	1.3780	.656
77017	17	.6693	40	1.5748	.718
77020	20	.7874	47	1.8504	.812
77025	25	.9843	52	2.0472	.812
*77026	26	1.0236	52	2.0472	.812
77030	30	1.1811	62	2.4409	.945
77035	35	1.3780	72	2.8346	.984
77040	40	1.5748	80	3.1496	1.1024
77045	45	1.7717	85	3.3465	1.1417
*77050	50	1.9685	90	3.5433	1.1811

*Check for availability.

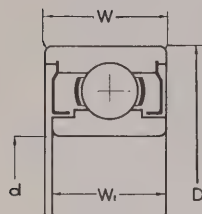
NEED HELP ON BEARINGS—CALL US

NORMA-HOFFMANN BALL BEARINGS

"9000-D" AND "9000-DD" SERIES METAL (FELTLESS) SEAL



9000-D Series



9000-DD Series

BEARING NUMBER		BORE (d)		OUTSIDE DIA. (D)		Overall Width (W) Inches	Inner Ring (W ₁) Inches	Basic No.
"D" Series One Shield	"DD" Series Two Shields	Mm	Inches	Mm	Inches			
9006-D	9006-DD	6	.2362	24	.9449	.406	.390	9006-D
9077-D	9077-DD	7	.2756	22	.8661	.406	.390	9077-D
9007-D	9007-DD	7	.2756	24	.9449	.406	.390	9007-D
9088-D	9088-DD	8	.3150	22	.8661	.406	.390	9088-D
9008-D	9008-DD	8	.3150	24	.9449	.406	.390	9008-D
9099-D	9099-DD	9	.3543	26	1.0236	.453	.437	9099-D
9009-D	9009-DD	9	.3543	30	1.1811	.500	.484	9009-D
9010-D	9010-DD	10	.3937	30	1.1811	.500	.484	9010-D
9011-D	9011-DD	11	.4331	32	1.2598	.500	.484	9011-D
9012-D	9012-DD	12	.4724	32	1.2598	.500	.484	9012-D
9013-D	9013-DD	13	.5118	32	1.2598	.500	.484	9013-D
9014-D	9014-DD	14	.5512	35	1.3780	.500	.484	9014-D
9015-D	9015-DD	15	.5906	35	1.3780	.500	.484	9015-D
9016-D	9016-DD	16	.6299	35	1.3780	.500	.484	9016-D
9017-D	9017-DD	17	.6693	40	1.5748	.563	.547	9017-D
9020-D	9020-DD	20	.7874	47	1.8504	.625	.609	9020-D
9025-D	9025-DD	25	.9843	52	2.0472	.625	.609	9025-D
9026-D	9026-DD	26	1.0236	52	2.0472	.625	.609	9026-D

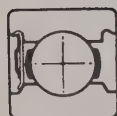
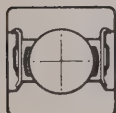
†Also available with "Plastiseal" type synthetic seals. Identified by suffix "K" and "KK".

SINGLE ROW EXTRA LIGHT METRIC SERIES 6100, 6100-P & 6100-PP

Fig. 1
Without ShieldsFig. 2
Single ShieldFig. 3
Double Shield

BEARING NUMBER			BORE		OUTSIDE DIA.		WIDTH	
Fig. 1 6100 Series Without Shields	Fig. 2 6100-P Series With Single Shield	Fig. 3 6100-PP Series With Double Shield	Mm	Inches	Mm	Inches	Mm	Inches
6100	6100-P	6100-PP	10	.3937	26	1.0236	8	.315
6101	6101-P	6101-PP	12	.4724	28	1.1024	8	.315
6102	6102-P	6102-PP	15	.5906	32	1.2598	9	.354
6103	6103-P	6103-PP	17	.6693	35	1.3780	10	.394
6104	6104-P	6104-PP	20	.7874	42	1.6535	12	.472
6105	6105-P	6105-PP	25	.9843	47	1.8504	12	.472
6106	6106-P	6106-PP	30	1.1811	55	2.1654	13	.512
6107	6107-P	6107-PP	35	1.3780	62	2.4409	14	.551
6108	6108-P	6108-PP	40	1.5748	68	2.6772	15	.591
6109	6109-P	6109-PP	45	1.7717	75	2.9528	16	.630

"PLASTISEAL" SINGLE ROW, METRIC BALL BEARINGS WITH SYNTHETIC RUBBER SEALS

Single
Rubber SealDouble
Rubber SealSingle
Rubber Seal
and Shield

BEARING NUMBER			BORE		OUTSIDE DIA.		WIDTH	
Single Seal	Double Seal	Single Seal and Shield	Mm	Inches	Mm	Inches	Mm	Inches
C-97-K	C-97-KK	C-97-KP	7	.2756	22	.8661	7	.276
C-98-K	C-98-KK	C-98-KP	8	.3150	22	.8661	7	.276
C-99-K	C-99-KK	C-99-KP	9	.3543	26	1.0236	8	.315
6100-K	6100-KK	6100-KP	10	.3937	26	1.0236	8	.315
6101-K	6101-KK	6101-KP	12	.4724	28	1.1024	8	.315
6102-K	6102-KK	6102-KP	15	.5906	32	1.2598	9	.354
6103-K	6103-KK	6103-KP	17	.6693	35	1.3780	10	.394
6105-K	6105-KK	6105-KP	25	.9843	47	1.8504	12	.472
6108-K	6108-KK	6108-KP	40	1.5748	68	2.6772	15	.591
6111-K	6111-KK	6111-KP	55	2.1654	90	3.5433	18	.709
*200-N	*200-NN	200-KP	10	.3937	30	1.1811	9	.354
*201-N	*201-NN	201-KP	12	.4724	32	1.2598	10	.394
202-K	202-KK	202-KP	15	.5906	35	1.3780	11	.433
203-K	203-KK	203-KP	17	.6693	40	1.5748	12	.472
*204-N	*204-NN	204-KP	20	.7874	47	1.8504	14	.551
205-K	205-KK	205-KP	25	.9843	52	2.0472	15	.591
206-K	206-KK	206-KP	30	1.1811	62	2.4409	16	.630
207-K	207-KK	207-KP	35	1.3780	72	2.8346	17	.669

*Have removable seals—identified by suffix "N" and "NN".

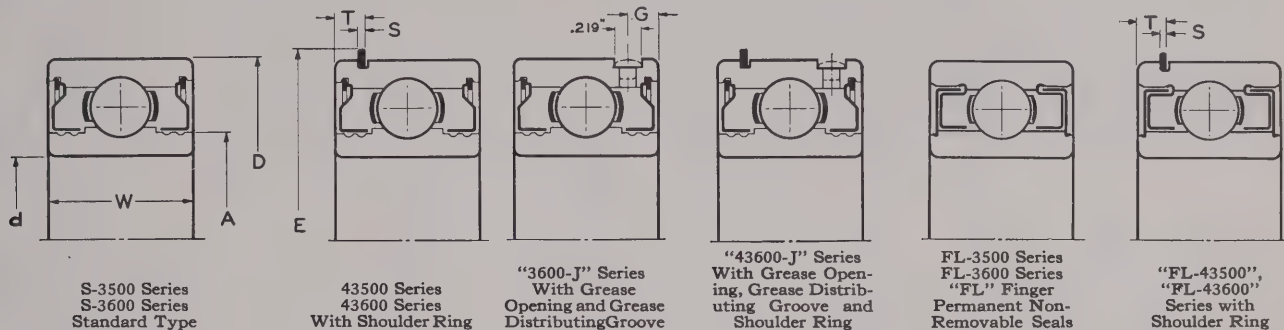
•Check for availability.

NORMA-HOFFMANN BALL BEARINGS CARTRIDGE TYPE

"Cartridge" bearings are self-contained, nonseparable and are suitable for combined radial and thrust loads in either direction. They are made to standard double row ball bearing width to provide large grease capacity, and are equipped with double metal removable seals of flanged construction.

Certain sizes are now supplied with new "FL" Flinger type seal design which gives added protection under unusually dirty or dusty conditions.

"FL" Series design will eventually supersede the "S" Series.



REMOVABLE SEAL TYPE				FLINGER SEAL TYPE		Bore (d)		Outside Dia. (D)		Width (W)	A	E	T	S	G
Bearing Number	With Shoulder Ring	With Grease Opening	With Grease Opening and Shoulder Ring	Bearing Number	With Shoulder Ring										
						Mm	Ins.	Mm	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.

LIGHT SERIES

S-3504	43504	.....	.....	†FL-3504	†FL-43504	20	.7874	47	1.8504	.813	1.009	2 ¹ / ₁₆	.225	.042	.....
S-3505	43505	.....	.....	FL-3505	FL-43505	25	.9843	52	2.0472	.813	1.263	2 ¹⁷ / ₆₄	.225	.042	.....
S-3506	43506	.....	.....	FL-3506	FL-43506	30	1.1811	62	2.4409	.938	1.490	2 ²¹ / ₃₂	.242	.065	.....
S-3507	43507	.....	.....	FL-3507	FL-43507	35	1.3780	72	2.8346	1.063	1.744	3 ⁵ / ₆₄	.242	.065	.....
S-3508	43508	.....	.....	FL-3508	FL-43508	40	1.5748	80	3.1496	1.188	2.032	3 ¹³ / ₃₂	.242	.065	.....
S-3509	43509	.....	.....	†FL-3509	†FL-43509	45	1.7717	85	3.3465	1.188	2.130	3 ¹⁹ / ₃₂	.242	.065	.....
†S-3510	†43510	.....	.....	†FL-3510	†FL-43510	50	1.9685	90	3.5433	1.188	2.400	3 ⁵¹ / ₆₄	.270	.095	.....
S-3511	43511	.....	.....	†FL-3511	†FL-43511	55	2.1654	100	3.9370	1.313	2.630	4 ³ / ₁₆	.270	.095	.....
†S-3512	†43512	.....	.....	†FL-3512	†FL-43512	60	2.3622	110	4.3307	1.438	2.835	4 ³⁷ / ₆₄	.270	.095	.....
S-3513	43513	.....	.....	†FL-3513	†FL-43513	65	2.5591	120	4.7244	1.500	3.157	5 ³ / ₃₂	.396	.109	.....

MEDIUM SERIES

S-3604	43604	.....	.....	†FL-3604	†FL-43604	20	.7874	52	2.0472	.875	1.082	2 ¹⁷ / ₆₄	.185	.042	.....
S-3605	43605	.....	.....	†FL-3605	†FL-43605	25	.9843	62	2.4409	1.000	1.356	2 ²¹ / ₃₂	.242	.065	1 ⁹ / ₆₄
S-3606	43606	3606-J	43606-J	†FL-3606	†FL-43606	30	1.1811	72	2.8346	1.188	1.636	3 ⁵ / ₆₄	.242	.065	5 ¹ / ₁₆
S-3607	43607	3607-J	43607-J	†FL-3607	†FL-43607	35	1.3780	80	3.1496	1.375	1.860	3 ¹⁵ / ₃₂	.242	.065	2 ¹ / ₆₄
S-3608	43608	3608-J	43608-J	†FL-3608	†FL-43608	40	1.5748	90	3.5433	1.438	2.140	3 ⁵¹ / ₆₄	.270	.095	2 ³ / ₆₄
S-3609	43609	3609-J	43609-J	FL-3609	FL-43609	45	1.7717	100	3.9370	1.563	2.400	4 ³ / ₁₆	.270	.095	1 ¹ / ₃₂
S-3610	43610	3610-J	43610-J	†FL-3610	†FL-43610	50	1.9685	110	4.3307	1.750	2.640	4 ³⁷ / ₆₄	.270	.095	11 ¹ / ₃₂
S-3611	43611	3611-J	43611-J	FL-3611	FL-43611	55	2.1654	120	4.7244	1.938	2.842	5 ³ / ₃₂	.396	.109	3 ⁸ / ₈
S-3612	43612	3612-J	43612-J	FL-3612	FL-43612	60	2.3622	130	5.1181	2.125	3.037	5 ¹ / ₂	.396	.109	7 ¹ / ₁₆
S-3613	43613	3613-J	43613-J	†FL-3613	†FL-43613	65	2.5591	140	5.5118	2.313	3.287	5 ⁵⁷ / ₆₄	.420	.109	3 ³ / ₆₄
S-3614	43614	3614-J	43614-J	†FL-3614	†FL-43614	70	2.7559	150	5.9055	2.500	3.460	6 ⁹ / ₃₂	.420	.109	3 ³ / ₆₄
S-3615	43615	3615-J	43615-J	†FL-3615	†FL-43615	75	2.9528	160	6.2992	2.688	3.760	6 ⁴³ / ₆₄	.420	.109	3 ³ / ₆₄
S-3616	.....	3616-J	.....	†FL-3616	.....	80	3.1496	170	6.6929	2.688	4.008	.....	.....	.....	3 ³ / ₆₄
S-3617	.....	3617-J	.....	†FL-3617	.....	85	3.3465	180	7.0866	2.875	4.221	.....	.....	.....	3 ³ / ₆₄
S-3618	.....	3618-J	.....	†FL-3618	.....	90	3.5433	190	7.4803	2.875	4.560	.....	.....	.....	3 ³ / ₆₄
†S-3619	.....	†3619-J	.....	.....	.....	95	3.7402	200	7.8740	3.063	4.782	.....	.....	.....	3 ³ / ₆₄
S-3620	.....	3620-J	.....	†FL-3620	.....	100	3.9370	215	8.4646	3.250	5.138	.....	.....	.....	3 ³ / ₆₄

†Sizes indicated are not tooled for production. Consult us for availability before incorporating in new designs.

NEED HELP ON BEARINGS—CALL US

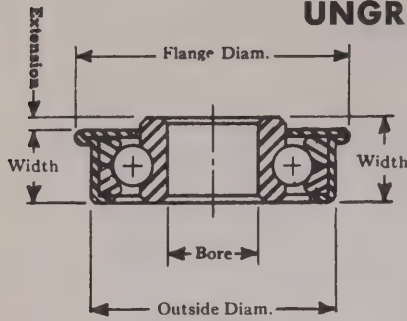
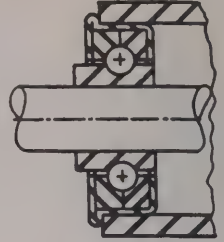
UNGROUND COMMERCIAL BALL BEARINGS**TYPE A—FLANGED**

**Non-Precision For Light Loads
And Speeds Under 1500 R.P.M.**

Inside Shoulder in Housing
Not Required When Using UF
Series Bearings.

SOME SIZES
NOT CURRENTLY
IN PRODUCTION.

CHECK FOR
AVAILABILITY.

**PREFERRED SIZES LISTED IN BOLD TYPE**

OBB No.	Bore +.005" -.000"	Out- side Diam.	Width	Ex- ten- sion	Width	Flange Diam.	BALLS	
							No.	Size
UF-1	.112	1/2	3/16	1/32	7/32	9/16	8	3/32
UF-2	1/8	5/8	3/16	1/64	13/64	23/32	13	3/32
UF-3	3/16	5/8	3/16	1/64	13/64	23/32	13	3/32
UF-4	3/16	11/16	1/4	1/16	5/16	51/64	10	1/8
UF-5	1/4	11/16	1/4	1/16	5/16	51/64	10	1/8
UF-6	3/16	3/4	1/4	1/16	5/16	15/16	11	1/8
UF-7	1/4	3/4	1/4	1/16	5/16	15/16	11	1/8
UF-8	3/16	7/8	1/4	1/16	5/16	31/32	9	5/32
UF-9	1/4	7/8	1/4	1/16	5/16	31/32	12	1/8
UF-10	5/16	7/8	1/4	1/16	5/16	31/32	12	1/8
UF-11	1/4	29/32	5/16	1/16	3/8	11/32	11	5/32
UF-12	5/16	29/32	5/16	1/16	3/8	11/32	15	1/8
UF-13	29/64	29/32	11/32	3/32	7/16	11/32	15	1/8
UF-14	3/8	29/32	11/32	3/32	7/16	11/32	15	1/8
UF-15	3/8	29/32	5/16	1/16	3/8	11/32	15	1/8
UF-16	7/16	29/32	11/32	3/32	7/16	11/32	15	1/8
UF-17	7/16	29/32	5/16	1/16	3/8	11/32	15	1/8
UF-18	5/16	11/16	3/8	1/16	7/16	13/16	14	5/32
UF-19	3/8	11/16	3/8	1/16	7/16	13/16	14	5/32
UF-20	7/16	11/16	3/8	1/16	7/16	13/16	14	5/32
UF-21	29/64	11/16	3/8	1/16	7/16	13/16	14	5/32
UF-22	3/8	11/8	3/8	1/16	7/16	11/4	15	5/32
UF-23	1/2	11/8	3/8	1/16	7/16	11/4	15	5/32
UF-231	33/64	11/8	3/8	1/8	1/2	19/32	15	5/32
UF-24	1/2	13/16	3/8	1/16	7/16	11/4	17	5/32
UF-25	1/2	11/4	3/8	1/16	7/16	11/32	13	3/16
UF-251	33/64	11/4	3/8	1/8	7/16	11/32	13	3/16
UF-252	5/8	11/4	3/8	1/16	7/16	11/32	22	1/8
UF-253	7/16	15/16	3/8	1/16	7/16	113/32	13	3/16
UF-254	7/16	15/16	3/8	7/16	13/16	113/32	13	3/16
UF-26	1/2	15/16	3/8	1/16	7/16	113/32	13	3/16
UF-261	5/16	13/8	7/16	1/4	11/16	11/2	10	1/4
UF-27	3/8	13/8	7/16	1/32	15/32	117/32	10	1/4
UF-28	7/16	13/8	7/16	1/8	9/16	117/32	10	1/4
UF-29	1/2	13/8	7/16	1/8	9/16	117/32	15	3/16
UF-30	1/2	13/8	7/16	1/16	1/2	117/32	15	3/16
UF-301	9/16	13/8	7/16	1/16	1/2	117/32	15	3/16
UF-31	9/16	13/8	7/16	1/8	9/16	117/32	15	3/16
UF-32	5/8	13/8	7/16	1/16	1/2	117/32	15	3/16
UF-33	5/8	13/8	7/16	3/8	9/16	117/32	15	3/16
UF-331	3/8	11/2	7/16	1/16	1/2	15/8	10	17/64
UF-34	1/2	11/2	7/16	1/32	15/32	111/16	12	1/4
UF-341	33/64	11/2	7/16	7/32	21/32	139/64	12	1/4
UF-35	33/64	11/2	7/16	1/4	11/16	111/16	12	1/4
UF-36	33/64	11/2	7/16	9/16	11/16	111/16	12	1/4
UF-37	9/16	11/2	7/16	1/16	1/2	111/16	17	3/16
UF-38	5/8	11/2	7/16	1/16	1/2	111/16	17	3/16
UF-39	5/8	11/2	7/16	1/8	9/16	111/16	17	3/16
UF-40	11/16	11/2	7/16	1/16	1/2	111/16	17	3/16

OBB No.	Bore +.005" -.000"	Out- side Diam.	Width	Ex- ten- sion	Width	Flange Diam.	BALLS	
							No.	Size
UF-41	7/16	19/16	7/16	1/8	9/16	123/32	13	1/4
UF-42	1/2	19/16	7/16	1/8	9/16	123/32	13	1/4
UF-421	1/2	19/16	7/16	7/32	21/32	123/32	13	1/4
UF-43	33/64	19/16	7/16	1/4	11/16	123/32	13	1/4
UF-44	5/8	19/16	7/16	1/8	9/16	123/32	13	1/4
UF-45	3/4	19/16	7/16	1/8	15/32	123/32	19	5/16
UF-451	3/4	19/16	7/16	7/32	21/32	123/32	19	5/16
UF-46	1/2	15/8	1/2	1/16	9/16	113/16	11	9/32
UF-47	1/2	15/8	1/2	1/2	1	113/16	13	1/4
UF-48	33/64	15/8	1/2	1/16	9/16	113/16	13	1/4
UF-49	5/8	15/8	1/2	1/16	9/16	113/16	13	1/4
UF-50	1/2	13/4	9/16	1/16	5/8	129/32	14	1/4
UF-501	33/64	13/4	9/16	1/16	5/8	131/32	14	1/4
UF-51	33/64	13/4	9/16	1/4	13/16	129/32	14	1/4
UF-52	9/16	13/4	9/16	1/16	5/8	129/32	14	1/4
UF-53	5/8	13/4	9/16	1/16	5/8	129/32	14	1/4
UF-54	3/4	13/4	9/16	1/16	5/8	129/32	14	1/4
UF-541	1/2	17/8	1/2	1/8	5/8	21/8	16	1/4
UF-55	3/4	17/8	1/2	1/16	9/16	21/32	13	9/32
UF-56	7/8	17/8	1/2	1/8	5/8	21/32	15	1/4
UF-57	3/4	2	1/2	1/16	9/16	23/16	13	5/16
UF-58	15/16	2	1/2	1/8	3/4	23/16	17	1/4
UF-59	1	2	1/2	1/4	5/8	23/16	17	1/4
UF-60	33/64	25/64	5/8	1/4	7/8	27/32	14	5/16
UF-61	.629	25/64	5/8	1/4	7/8	27/32	14	5/16
UF-62	1/2	21/8	5/8	1/8	3/4	21/4	15	5/16
UF-63	41/64	21/8	5/8	1/4	7/8	21/4	15	5/16
UF-64	3/4	21/8	5/8	1/4	7/8	21/4	15	5/16
UF-65	7/8	21/8	5/8	1/4	7/8	21/4	15	5/16
UF-66	1	21/8	5/8	1/4	7/8	21/4	15	5/16
UF-67	3/4	21/4	5/8	1/4	7/8	27/16	12	3/8
UF-68	7/8	21/4	5/8	1/4	7/8	27/16	13	17/32
UF-69	1	21/4	5/8	1/4	7/8	27/16	15	5/16
UF-70	41/64	25/16	5/8	1/4	7/8	215/32	15	5/16
UF-71	3/4	25/16	5/8	1/4	7/8	215/32	13	3/8
UF-72	1	25/16	5/8	1/4	7/8	215/32	13	3/8
UF-721	11/8	25/16	5/8	1/4	7/8	215/32	18	9/32
UF-73	49/64	21/2	5/8	1/4	7/8	211/16	14	3/8
UF-74	7/8	21/2	5/8	1/4	7/8	211/16	14	3/8
UF-75	15/16	21/2	5/8	1/4	7/8	211/16	14	3/8
UF-76	1	21/2	5/8	1/4	7/8	211/16	14	3/8
UF-761	11/8	21/2	5/8	1/4	7/8	241/64	17	5/16
UF-77	11/4	21/2	5/8	1/4	7/8	211/16	17	5/16
UF-771	13/8	21/2	5/8	1/4	7/8	241/64	22	1/4
UF-78	1	217/32	5/8	1/4	7/8	213/16	18	5/16
UF-79	25/32	3.064	3/4	1/4	1	31/4	12	1/2
UF-791	1/4	3.064	3/4	1/8	7/8	31/4	15	1/16
UF-80	1/4	3.064	3/4	1/4	1	31/4	15	7/16
UF-81	13/8	3.064	3/4	1/8	7/8	31/4	15	7/16
UF-82	11/2	3.064	3/4	1/8	7/8	31/4	18	3/8

UNGROUND COMMERCIAL BALL BEARINGS TYPE A

For Light Loads and Speeds Under 1500 R.P.M.

Non-Precision

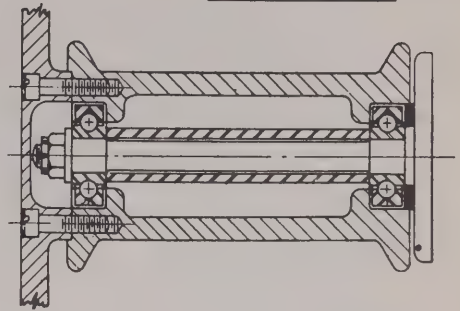
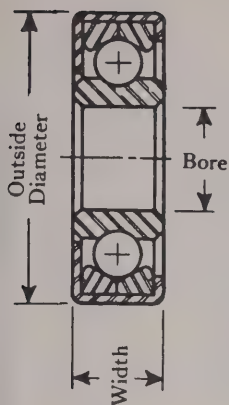
Dust Proof

Race rings are not ground but are carefully machined or cold formed, smoothly finished and are carburized, hardened and tempered. The outer case is cold formed from strip stock and is not hardened. Balls are of highly finished steel, properly heat treated and held to very close tolerances.

All bearings listed can be manufactured with modifications to adapt them to unusual conditions.

SOME SIZES
NOT CURRENTLY
IN PRODUCTION.

CHECK FOR
AVAILABILITY.



Typical Application

PREFERRED SIZES LISTED IN BOLD TYPE

OBB No.	Bore +.005" -.000"	Out- side Diam- eter	Width	OBB No.	Bore +.005" -.000"	Out- side Diam- eter	Width	OBB No.	Bore +.005" -.000"	Out- side Diam- eter	Width
UDP- 1	$\frac{3}{32}$	$\frac{1}{2}$	$\frac{3}{16}$	UDP-40	$\frac{3}{8}$	$1\frac{1}{4}$	$\frac{3}{8}$	UDP- 80	$\frac{5}{8}$	$1\frac{5}{8}$	$\frac{1}{2}$
UDP- 2	$\frac{3}{16}$	$\frac{9}{16}$	$\frac{3}{16}$	UDP-41	$\frac{7}{16}$	$1\frac{1}{4}$	$\frac{3}{8}$	UDP- 81	$\frac{3}{4}$	$1\frac{5}{8}$	$\frac{1}{2}$
UDP- 3	$\frac{1}{8}$	$\frac{5}{8}$	$\frac{3}{16}$	UDP-42	$\frac{1}{2}$	$1\frac{1}{4}$	$\frac{3}{8}$	UDP- 82	$\frac{1}{2}$	$1\frac{3}{4}$	$\frac{9}{16}$
UDP- 4	$\frac{3}{16}$	$\frac{5}{8}$	$\frac{3}{16}$	UDP-42-1	$\frac{5}{8}$	$1\frac{1}{4}$	$\frac{5}{16}$	UDP- 83	$\frac{9}{16}$	$1\frac{3}{4}$	$\frac{9}{16}$
UDP- 5	$\frac{3}{16}$	$1\frac{1}{16}$	$\frac{1}{4}$	UDP-43	$\frac{3}{8}$	$1\frac{9}{32}$	$\frac{5}{16}$	UDP- 84	$\frac{5}{8}$	$1\frac{3}{4}$	$\frac{9}{16}$
UDP- 6	$\frac{1}{4}$	$1\frac{1}{16}$	$\frac{1}{4}$	UDP-44	$\frac{7}{16}$	$1\frac{9}{32}$	$\frac{5}{16}$	UDP- 85	$\frac{3}{4}$	$1\frac{3}{4}$	$\frac{9}{16}$
UDP- 7	$\frac{3}{16}$	$\frac{3}{4}$	$\frac{1}{4}$	UDP-45	$\frac{1}{2}$	$1\frac{9}{32}$	$\frac{5}{16}$	UDP- 86	$\frac{5}{8}$	$1\frac{7}{8}$	$\frac{1}{2}$
UDP- 8	$\frac{1}{4}$	$\frac{3}{4}$	$\frac{1}{4}$	UDP-46	$\frac{3}{8}$	$1\frac{9}{32}$	$\frac{3}{8}$	UDP- 87	$\frac{3}{4}$	$1\frac{7}{8}$	$\frac{1}{2}$
UDP- 9	$\frac{3}{16}$	$1\frac{3}{16}$	$\frac{1}{4}$	UDP-47	$\frac{7}{16}$	$1\frac{9}{32}$	$\frac{3}{8}$	UDP- 88	$\frac{3}{4}$	$1\frac{7}{8}$	$\frac{1}{2}$
UDP-10	$\frac{1}{4}$	$1\frac{3}{16}$	$\frac{1}{4}$	UDP-48	$\frac{1}{2}$	$1\frac{9}{32}$	$\frac{3}{8}$	UDP- 89	$\frac{7}{8}$	$1\frac{7}{8}$	$\frac{1}{2}$
UDP-11	$\frac{3}{16}$	$\frac{7}{8}$	$\frac{1}{4}$	UDP-49	$\frac{3}{8}$	$1\frac{5}{16}$	$\frac{3}{8}$	UDP- 90	$\frac{3}{4}$	$1\frac{15}{16}$	$\frac{5}{8}$
UDP-12	$\frac{1}{4}$	$\frac{7}{8}$	$\frac{1}{4}$	UDP-50	$\frac{7}{16}$	$1\frac{5}{16}$	$\frac{3}{8}$	UDP- 91	$\frac{13}{16}$	$1\frac{15}{16}$	$\frac{5}{8}$
UDP-13	$\frac{5}{16}$	$\frac{7}{8}$	$\frac{1}{4}$	UDP-51	$\frac{1}{2}$	$1\frac{5}{16}$	$\frac{3}{8}$	UDP- 92	$\frac{7}{8}$	$1\frac{15}{16}$	$\frac{5}{8}$
UDP-13-1	$\frac{3}{8}$	$\frac{7}{8}$	$\frac{1}{4}$	UDP-52	$\frac{3}{8}$	$1\frac{23}{64}$	$\frac{7}{16}$	UDP- 93	$\frac{15}{16}$	$1\frac{15}{16}$	$\frac{5}{8}$
UDP-14	$\frac{1}{4}$	$2\frac{29}{32}$	$\frac{5}{16}$	UDP-53	$\frac{7}{16}$	$1\frac{23}{64}$	$\frac{7}{16}$	UDP- 94	$\frac{5}{8}$	2	$\frac{1}{2}$
UDP-15	$\frac{5}{16}$	$2\frac{29}{32}$	$\frac{5}{16}$	UDP-54	$\frac{1}{2}$	$1\frac{23}{64}$	$\frac{7}{16}$	UDP- 95	$\frac{3}{4}$	2	$\frac{1}{2}$
UDP-16	$\frac{3}{8}$	$2\frac{29}{32}$	$\frac{5}{16}$	UDP-55	$\frac{7}{16}$	$1\frac{3}{8}$	$\frac{7}{16}$	UDP- 96	$\frac{7}{8}$	2	$\frac{1}{2}$
UDP-17	$\frac{7}{16}$	$2\frac{29}{32}$	$\frac{5}{16}$	UDP-56	$\frac{7}{16}$	$1\frac{3}{8}$	$\frac{7}{16}$	UDP- 97	$\frac{15}{16}$	2	$\frac{1}{2}$
UDP-18	$\frac{1}{4}$	$1\frac{5}{16}$	$\frac{5}{16}$	UDP-57	$\frac{1}{2}$	$1\frac{3}{8}$	$\frac{7}{16}$	UDP- 98	1	2	$\frac{1}{2}$
UDP-19	$\frac{5}{16}$	$1\frac{5}{16}$	$\frac{5}{16}$	UDP-58	$\frac{9}{16}$	$1\frac{3}{8}$	$\frac{7}{16}$	UDP- 99	$\frac{1}{64}$	2	$\frac{1}{2}$
UDP-20	$\frac{3}{8}$	$1\frac{5}{16}$	$\frac{5}{16}$	UDP-59	$\frac{5}{8}$	$1\frac{3}{8}$	$\frac{7}{16}$	UDP-100	$\frac{1}{8}$	2	$\frac{1}{2}$
UDP-21	$\frac{7}{16}$	$1\frac{5}{16}$	$\frac{5}{16}$	UDP-60	$\frac{7}{16}$	$1\frac{7}{16}$	$\frac{1}{2}$	UDP-101	$\frac{3}{4}$	$2\frac{5}{64}$	$\frac{5}{8}$
UDP-22	$\frac{1}{4}$	1	$\frac{5}{16}$	UDP-61	$\frac{1}{2}$	$1\frac{7}{16}$	$\frac{1}{2}$	UDP-102	$\frac{7}{8}$	$2\frac{5}{64}$	$\frac{5}{8}$
UDP-23	$\frac{5}{16}$	1	$\frac{5}{16}$	UDP-62	$\frac{9}{16}$	$1\frac{7}{16}$	$\frac{1}{2}$	UDP-103	1	$2\frac{5}{64}$	$\frac{5}{8}$
UDP-24	$\frac{3}{8}$	1	$\frac{5}{16}$	UDP-63	$\frac{5}{8}$	$1\frac{7}{16}$	$\frac{1}{2}$	UDP-104	$\frac{3}{4}$	$2\frac{1}{8}$	$\frac{5}{8}$
UDP-25	$\frac{1}{4}$	$1\frac{1}{16}$	$\frac{1}{4}$	UDP-64	$\frac{7}{16}$	$1\frac{1}{2}$	$\frac{7}{16}$	UDP-105	$\frac{7}{8}$	$2\frac{1}{8}$	$\frac{5}{8}$
UDP-26	$\frac{5}{16}$	$1\frac{1}{16}$	$\frac{1}{4}$	UDP-65	$\frac{1}{2}$	$1\frac{1}{2}$	$\frac{7}{16}$	UDP-106	1	$2\frac{1}{8}$	$\frac{5}{8}$
UDP-27	$\frac{3}{8}$	$1\frac{1}{16}$	$\frac{1}{4}$	UDP-66	$\frac{33}{64}$	$1\frac{1}{2}$	$\frac{7}{16}$	UDP-107	$\frac{3}{4}$	$2\frac{3}{16}$	$\frac{5}{8}$
UDP-28	$\frac{5}{16}$	$1\frac{1}{16}$	$\frac{5}{16}$	UDP-67	$\frac{9}{16}$	$1\frac{1}{2}$	$\frac{7}{16}$	UDP-108	$\frac{7}{8}$	$2\frac{3}{16}$	$\frac{5}{8}$
UDP-29	$\frac{9}{16}$	$1\frac{1}{16}$	$\frac{5}{16}$	UDP-68	$\frac{5}{8}$	$1\frac{1}{2}$	$\frac{7}{16}$	UDP-109	1	$2\frac{3}{16}$	$\frac{5}{8}$
UDP-30	$\frac{7}{16}$	$1\frac{1}{16}$	$\frac{5}{16}$	UDP-68-1	$\frac{11}{16}$	$1\frac{1}{2}$	$\frac{7}{16}$	UDP-110	$\frac{3}{4}$	$2\frac{1}{4}$	$\frac{5}{8}$
UDP-31	$\frac{5}{16}$	$1\frac{1}{16}$	$\frac{3}{8}$	UDP-69	$\frac{1}{2}$	$1\frac{9}{16}$	$\frac{7}{16}$	UDP-111	$\frac{7}{8}$	$2\frac{1}{4}$	$\frac{5}{8}$
UDP-32	$\frac{3}{8}$	$1\frac{1}{16}$	$\frac{3}{8}$	UDP-70	$\frac{9}{16}$	$1\frac{9}{16}$	$\frac{7}{16}$	UDP-112	1	$2\frac{1}{4}$	$\frac{5}{8}$
UDP-33	$\frac{7}{16}$	$1\frac{1}{16}$	$\frac{3}{8}$	UDP-71	$\frac{5}{8}$	$1\frac{9}{16}$	$\frac{7}{16}$	UDP-113	$\frac{1}{8}$	$2\frac{1}{4}$	$\frac{5}{8}$
UDP-34	$\frac{3}{8}$	$1\frac{1}{8}$	$\frac{3}{8}$	UDP-72	$\frac{3}{4}$	$1\frac{9}{16}$	$\frac{7}{16}$	UDP-114	$\frac{3}{4}$	$2\frac{3}{16}$	$\frac{5}{8}$
UDP-35	$\frac{7}{16}$	$1\frac{1}{8}$	$\frac{3}{8}$	UDP-73	$\frac{1}{2}$	$1\frac{5}{8}$	$\frac{3}{8}$	UDP-115	$\frac{7}{8}$	$2\frac{3}{16}$	$\frac{5}{8}$
UDP-36	$\frac{1}{2}$	$1\frac{1}{8}$	$\frac{3}{8}$	UDP-74	$\frac{9}{16}$	$1\frac{5}{8}$	$\frac{3}{8}$	UDP-116	1	$2\frac{3}{16}$	$\frac{5}{8}$
UDP-37	$\frac{3}{8}$	$1\frac{3}{16}$	$\frac{3}{8}$	UDP-75	$\frac{5}{8}$	$1\frac{5}{8}$	$\frac{3}{8}$	UDP-117	$\frac{1}{8}$	$2\frac{3}{16}$	$\frac{5}{8}$
UDP-38	$\frac{7}{16}$	$1\frac{3}{16}$	$\frac{3}{8}$	UDP-76	$\frac{11}{16}$	$1\frac{5}{8}$	$\frac{3}{8}$	UDP-118	$\frac{13}{16}$	$2\frac{5}{16}$	$\frac{5}{8}$
UDP-39	$\frac{1}{2}$	$1\frac{3}{16}$	$\frac{3}{8}$	UDP-77	$\frac{3}{4}$	$1\frac{5}{8}$	$\frac{3}{8}$	UDP-119	$\frac{1}{4}$	$2\frac{5}{16}$	$\frac{5}{8}$
				UDP-78	$\frac{1}{2}$	$1\frac{5}{8}$	$\frac{1}{2}$	UDP-120	$\frac{7}{8}$	$2\frac{1}{2}$	$\frac{5}{8}$
				UDP-79	$\frac{9}{16}$	$1\frac{5}{8}$	$\frac{1}{2}$	UDP-121	1	$2\frac{1}{2}$	$\frac{5}{8}$
								UDP-122	$\frac{1}{8}$	$2\frac{1}{2}$	$\frac{5}{8}$
								UDP-123	$\frac{1}{4}$	$2\frac{1}{2}$	$\frac{5}{8}$

Continued on next page

NEED HELP ON BEARINGS—CALL US

UNGROUND COMMERCIAL BALL BEARINGS TYPE A

Non-Precision — Dust Proof
For Light Loads and Speeds Under 1500 R. P. M.

SOME SIZES
NOT CURRENTLY
IN PRODUCTION.

CHECK FOR
AVAILABILITY.

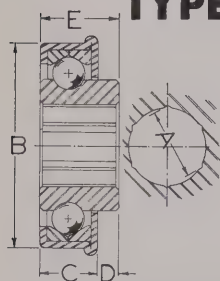
UDP Series Cont'd

PREFERRED SIZES LISTED IN BOLD TYPE

OBB No.	Bore +.0005" -.0000"	Out- side Diam- eter	Width	OBB No.	Bore +.0005" -.0000"	Out- side Diam- eter	Width
UDP-124	$\frac{7}{8}$	$2\frac{1}{2}$	$\frac{11}{16}$	UDP-148	$1\frac{1}{4}$	$3\frac{3}{8}$	$\frac{11}{16}$
UDP-125	1	$2\frac{1}{2}$	$\frac{11}{16}$	UDP-149	$1\frac{1}{2}$	$3\frac{3}{8}$	$\frac{11}{16}$
UDP-126	$1\frac{1}{8}$	$2\frac{1}{2}$	$\frac{11}{16}$	UDP-150	$1\frac{5}{8}$	$3\frac{3}{8}$	$\frac{11}{16}$
UDP-127	$1\frac{1}{4}$	$2\frac{1}{2}$	$\frac{11}{16}$	UDP-151	$1\frac{3}{8}$	$3\frac{3}{8}$	$\frac{11}{16}$
UDP-128	$1\frac{3}{8}$	$2\frac{1}{2}$	$\frac{11}{16}$	UDP-152	$1\frac{1}{2}$	$3\frac{3}{8}$	$\frac{11}{16}$
UDP-129	$\frac{7}{8}$	$2\frac{17}{32}$	$\frac{5}{8}$	UDP-153	$1\frac{5}{8}$	$3\frac{3}{8}$	$\frac{11}{16}$
UDP-130	1	$2\frac{17}{32}$	$\frac{5}{8}$	UDP-154	$1\frac{3}{8}$	$3\frac{3}{8}$	$\frac{3}{4}$
UDP-131	$1\frac{1}{8}$	$2\frac{17}{32}$	$\frac{5}{8}$	UDP-155	$1\frac{1}{2}$	$3\frac{3}{8}$	$\frac{3}{4}$
UDP-132	$1\frac{1}{4}$	$2\frac{17}{32}$	$\frac{5}{8}$	UDP-156	$1\frac{5}{8}$	$3\frac{3}{8}$	$\frac{3}{4}$
UDP-133	$\frac{7}{8}$	$2\frac{5}{8}$	$\frac{11}{16}$	UDP-157	$1\frac{3}{4}$	$3\frac{3}{8}$	$\frac{3}{4}$
UDP-134	1	$2\frac{5}{8}$	$\frac{11}{16}$	UDP-158	$1\frac{7}{8}$	$3\frac{3}{8}$	$\frac{3}{4}$
UDP-135	$1\frac{1}{8}$	$2\frac{5}{8}$	$\frac{11}{16}$	UDP-159	$1\frac{1}{2}$	$3\frac{5}{8}$	$\frac{3}{4}$
UDP-136	$1\frac{1}{4}$	$2\frac{5}{8}$	$1\frac{1}{16}$	UDP-160	$1\frac{3}{4}$	$3\frac{5}{8}$	$\frac{3}{4}$
UDP-137	1	$2\frac{3}{4}$	$\frac{5}{8}$	UDP-161	$1\frac{7}{8}$	$3\frac{5}{8}$	$\frac{3}{4}$
UDP-138	$1\frac{1}{8}$	$2\frac{3}{4}$	$\frac{5}{8}$	UDP-162	2	$3\frac{5}{8}$	$\frac{3}{4}$
UDP-139	$1\frac{1}{4}$	$2\frac{3}{4}$	$\frac{5}{8}$	UDP-163	$1\frac{1}{2}$	$3\frac{3}{4}$	$\frac{13}{16}$
UDP-140	$1\frac{3}{8}$	$2\frac{3}{4}$	$\frac{5}{8}$	UDP-164	$1\frac{3}{4}$	$3\frac{3}{4}$	$\frac{13}{16}$
UDP-141	$1\frac{1}{2}$	$2\frac{3}{4}$	$\frac{5}{8}$	UDP-165	2	$3\frac{3}{4}$	$\frac{13}{16}$
UDP-142	$1\frac{1}{4}$	$2\frac{7}{8}$	$\frac{11}{16}$	UDP-166	$1\frac{3}{4}$	$3\frac{15}{16}$	$\frac{13}{16}$
UDP-143	$1\frac{3}{8}$	$2\frac{7}{8}$	$\frac{11}{16}$	UDP-167	2	$3\frac{15}{16}$	$\frac{13}{16}$
UDP-144	$1\frac{1}{2}$	$2\frac{7}{8}$	$\frac{11}{16}$	UDP-168	$2\frac{1}{4}$	$3\frac{15}{16}$	$\frac{13}{16}$
UDP-145	$1\frac{1}{4}$	3.064	$\frac{3}{4}$	UDP-169	$2\frac{1}{4}$	$4\frac{3}{8}$	$\frac{7}{8}$
UDP-146	$1\frac{1}{2}$	3.064	$\frac{3}{4}$	UDP-170	$2\frac{7}{16}$	$4\frac{3}{8}$	$\frac{7}{8}$
UDP-147	$1\frac{5}{8}$	3.064	$\frac{3}{4}$	UDP-171	$2\frac{3}{4}$	$4\frac{3}{8}$	$\frac{7}{8}$

TYPE A (UNGROUND) FLANGED BALL BEARINGS

With Hex Bores



The combination of the flanged outer ring for easy mounting in tubing, and hex bores for positive shaft mounting makes this type of ball bearing one of the most active in the conveyor field. Race rings are carburized, hardened and tempered. Balls are of correct hardness, accuracy and quality for the type of service required of these bearings. Ball tracks are smoothly finished, making a very free running bearing.

When ordering specify maximum shaft size (distance across flats).

SOME SIZES NOT CURRENTLY IN PRO-
DUCTION. CHECK FOR AVAILABILITY.

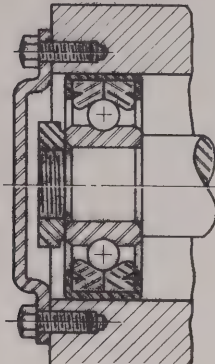
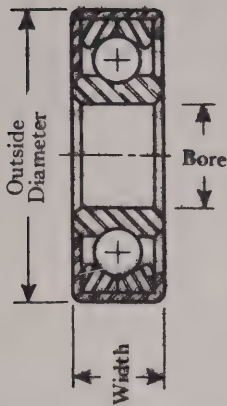
OBB NO.	A HEX BORE	B OUTSIDE DIAMETER +.002" -.002"	C WIDTH	D EXTENSION	E WIDTH	F FLANGE DIAMETER	BALLS	
							NO.	SIZE
HX-1	$\frac{3}{8}$	$1\frac{1}{8}$	$\frac{3}{8}$	$\frac{1}{8}$	$\frac{1}{2}$	$1\frac{1}{4}$	15	$\frac{5}{32}$
HX-2	$2\frac{5}{64}$	1.146	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{5}{8}$	$1\frac{17}{32}$	16	$\frac{5}{32}$
HX-3	$\frac{3}{8}$	$1\frac{3}{8}$	$\frac{7}{16}$	$\frac{5}{16}$	$\frac{3}{4}$	$1\frac{11}{32}$	10	$\frac{3}{4}$
HX-4	$\frac{7}{16}$	$1\frac{1}{4}$	$\frac{5}{8}$	$\frac{5}{16}$	$\frac{17}{32}$	$1\frac{11}{32}$	13	$\frac{7}{16}$
HX-5	$\frac{7}{16}$	$1\frac{1}{2}$	$\frac{7}{16}$	$\frac{7}{16}$	$\frac{7}{8}$	$1\frac{59}{64}$	11	$\frac{15}{64}$
HX-6	$\frac{7}{16}$	$1\frac{1}{2}$	$\frac{7}{16}$	$\frac{1}{4}$	$\frac{11}{16}$	$1\frac{59}{64}$	12	$\frac{1}{4}$
HX-7	$\frac{7}{16}$	$1\frac{1}{2}$	$\frac{7}{16}$	$\frac{5}{64}$	$\frac{11}{16}$	$1\frac{11}{16}$	12	$\frac{1}{4}$
HX-8	$\frac{1}{2}$	$1\frac{1}{2}$	$\frac{7}{16}$	$\frac{1}{4}$	$\frac{11}{16}$	$1\frac{11}{16}$	12	$\frac{1}{4}$
HX-9	$\frac{5}{16}$	$1\frac{1}{8}$	$\frac{7}{16}$	$\frac{1}{4}$	$\frac{11}{16}$	$1\frac{23}{32}$	13	$\frac{1}{4}$
HX-10	$\frac{5}{8}$	$1\frac{3}{4}$	$\frac{7}{16}$	$\frac{3}{4}$	$\frac{15}{16}$	$1\frac{23}{32}$	14	$\frac{1}{4}$
HX-11	$\frac{11}{16}$	$1\frac{7}{8}$	$\frac{1}{2}$	$\frac{1}{4}$	$\frac{3}{4}$	$2\frac{1}{32}$	15	$\frac{1}{4}$
HX-12	$\frac{3}{4}$	2	$\frac{1}{2}$	$\frac{1}{4}$	$\frac{3}{4}$	$2\frac{1}{16}$	17	$\frac{1}{4}$
HX-13	$\frac{5}{8}$	$2\frac{5}{64}$	$\frac{1}{2}$	$\frac{1}{4}$	$\frac{3}{4}$	$2\frac{1}{4}$	14	$\frac{5}{16}$
HX-14	$\frac{3}{8}$	$2\frac{1}{16}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	$2\frac{15}{32}$	13	$\frac{3}{8}$

Tolerance on bore $\frac{3}{4}$ " and less +.005" +.010."

NEED HELP ON BEARINGS—CALL US

GROUND COMMERCIAL BALL BEARINGS

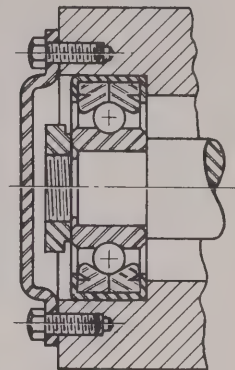
Non-Precision Type — Plain Dust Proof — Single Shield
All Surfaces Ground — For Speeds Under 2500 R. P. M.



Mounted to take radial load only.

SOME SIZES
NOT CURRENTLY
IN PRODUCTION.

CHECK FOR
AVAILABILITY.



Mounted to take radial and thrust loads. Thrust load may be in either direction.

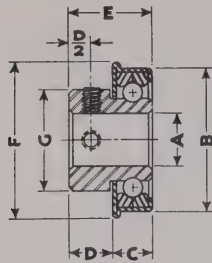
PREFERRED SIZES LISTED IN BOLD TYPE

OBB No.	Bore	O. Dia.	Width	Balls	
				No.	Size
GDP- 1	1/8	1/2	3/16	8	3/32
GDP- 2	1/8	5/8	3/16	9	1/8
GDP- 3	3/16	5/8	3/16	14	3/32
GDP- 4	1/4	5/8	3/16	14	3/32
GDP- 5	3/16	11/16	1/4	10	1/8
GDP- 6	1/4	11/16	1/4	10	1/8
GDP- 7	3/16	3/4	1/4	11	1/8
GDP- 8	1/4	3/4	1/4	11	1/8
GDP- 9	3/16	7/8	1/4	12	1/8
GDP-10	1/4	7/8	1/4	12	1/8
GDP-11	5/16	29/32	5/16	15	1/8
GDP-12	3/8	29/32	5/16	15	1/8
GDP-13	7/16	29/32	5/16	15	1/8
GDP-14	5/16	15/16	5/16	15	1/8
GDP-15	3/8	15/16	5/16	15	1/8
GDP-16	7/16	15/16	5/16	15	1/8
GDP-17	1/4	1 1/16	1/4	13	5/32
GDP-18	5/16	1 1/16	1/4	13	5/32
GDP-19	3/8	1 1/16	1/4	13	5/32
GDP-20	1/4	1 1/16	3/8	11	3/16
GDP-21	5/16	1 1/16	3/8	11	3/16
GDP-22	3/8	1 1/16	3/8	11	3/16
GDP-23	3/8	1 1/8	3/8	15	5/32
GDP-24	7/16	1 1/8	3/8	15	5/32
GDP-25	1/2	1 1/8	3/8	15	5/32
GDP-26	3/8	1 9/32	5/16	17	5/32
GDP-27	7/16	1 9/32	5/16	17	5/32
GDP-28	1/2	1 9/32	5/16	17	5/32
GDP-29	7/16	1 3/8	7/16	15	3/16
GDP-30	1/2	1 3/8	7/16	15	3/16
GDP-31	9/16	1 3/8	7/16	15	3/16
GDP-32	5/8	1 3/8	7/16	15	3/16
GDP-33	1/2	1 1/2	7/16	17	3/16
GDP-34	9/16	1 1/2	7/16	17	3/16
GDP-35	5/8	1 1/2	7/16	17	3/16
GDP-36	7/16	1 5/8	3/8	13	1/4
GDP-37	1/2	1 5/8	3/8	13	1/4
GDP-38	9/16	1 5/8	3/8	13	1/4
GDP-39	5/8	1 5/8	3/8	13	1/4
GDP-391	3/8	1 3/4	9/16	14	1/4
GDP-40	1/2	1 3/4	9/16	14	1/4
GDP-41	9/16	1 3/4	9/16	14	1/4

OBB No.	Bore	O. Dia.	Width	Balls	
				No.	Size
GDP-42	5/8	1 3/4	9/16	14	1/4
GDP-43	1 1/16	1 3/4	9/16	14	1/4
GDP-44	3/4	1 3/4	9/16	14	1/4
GDP-45	5/8	1 7/8	1/2	12	5/16
GDP-46	1 1/16	1 7/8	1/2	15	1/4
GDP-47	3/4	1 7/8	1/2	15	1/4
GDP-48	7/8	1 7/8	1/2	15	1/4
GDP-49	5/8	2	7/16	14	9/32
GDP-50	1 1/16	2	7/16	14	9/32
GDP-51	3/4	2	7/16	14	9/32
GDP-52	1 3/16	2	7/16	14	9/32
GDP-53	7/8	2	7/16	14	9/32
GDP-54	1 5/16	2	7/16	17	1/4
GDP-55	1	2	7/16	17	1/4
GDP-56	5/8	2	5/8	14	9/32
GDP-57	1 1/16	2	5/8	14	9/32
GDP-58	3/4	2	5/8	14	9/32
GDP-59	1 3/16	2	5/8	14	9/32
GDP-60	7/8	2	5/8	14	9/32
GDP-61	1 5/16	2	5/8	17	1/4
GDP-62	1	2	5/8	17	1/4
GDP-63	3/4	2 1/4	5/8	15	5/16
GDP-64	1 5/16	2 1/4	5/8	15	5/16
GDP-65	7/8	2 1/4	5/8	15	5/16
GDP-66	1 5/16	2 1/4	5/8	15	5/16
GDP-67	1	2 1/4	5/8	15	5/16
GDP-68	7/8	2 5/8	1 1/16	14	3/8
GDP-69	1 5/16	2 5/8	1 1/16	14	3/8
GDP-70	1	2 5/8	1 1/16	14	3/8
GDP-71	1 1/16	2 5/8	1 1/16	14	3/8
GDP-72	1 1/8	2 5/8	1 1/16	14	3/8
GDP-73	1 5/16	2 5/8	1 1/16	16	11/32
GDP-74	1 1/4	2 5/8	1 1/16	18	5/16
GDP-741	1 5/16	2 5/8	1 1/16	18	5/16
GDP-75	1	2 3/4	5/8	16	3/8
GDP-76	1 1/8	2 3/4	5/8	16	3/8
GDP-77	1 3/16	2 3/4	5/8	16	3/8
GDP-78	1 1/4	2 3/4	5/8	16	3/8
GDP-79	1 3/8	2 3/4	5/8	16	3/8
GDP-80	1 7/16	2 3/4	5/8	21	5/16
GDP-81	1 1/4	3 5/32	1 1/16	17	13/32
GDP-82	1 3/8	3 5/32	1 1/16	17	13/32
GDP-83	1 7/16	3 5/32	1 1/16	17	13/32
GDP-84	1 1/2	3 5/32	1 1/16	17	13/32

TYPE A COMMERCIAL BALL BEARINGS NOT GROUND**Flanged Set Screw FX Series**

SOME SIZES
NOT CURRENTLY
IN PRODUCTION.
CHECK FOR
AVAILABILITY.



Race rings, which are carefully machined or cold formed and smoothly finished, are carburized, hardened and tempered. The outer case is cold formed from strip stock and is not hardened. Balls are of proper hardness, accuracy and quality.

Bores are finished to close tolerances to insure proper shaft fits. Unless otherwise specified, slotted headless set screws will be furnished. An extra charge will be made for the hollow type.

All bearings listed can be manufactured with modifications to adapt them to unusual conditions.

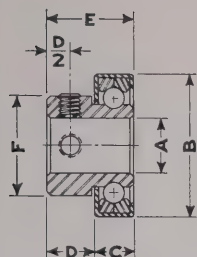
OBB No.	Bore A	Outside Diam. B	Width C	Extension D	Width E	Flange Diam. F	Extension G	Set Screw	Balls	
									No.	Size
FX- 1	1/4	1 1/16	1/4	3/8	5/8	2 5/16	9/16	10-32	10	1/8
FX- 2	1/4	3/4	1/4	3/8	5/8	5 3/4	9/16	10-32	11	1/8
FX- 3	1/4	7/8	1/4	3/8	5/8	3 1/2	5/8	10-32	12	1/8
FX- 4	1/4	2 3/16	5/16	3/8	1 1/16	1 1/2	3/4	10-32	11	5/32
FX- 5	5/16	2 3/16	5/16	3/8	1 1/16	1 1/2	3/4	10-32	15	5/32
FX- 6	3/8	2 3/16	5/16	3/8	1 1/16	1 1/2	3/4	10-32	15	5/32
FX- 7	5/16	1 1/16	3/8	3/8	3/4	1 3/16	13/16	10-32	14	5/32
FX- 8	3/8	1 1/16	3/8	3/8	3/4	1 3/16	13/16	10-32	14	5/32
FX- 9	1/2	1 1/16	3/8	3/8	3/4	1 3/16	13/16	10-32	14	5/32
FX-10	3/8	1 1/8	3/8	3/8	3/4	1 1/4	7/8	10-32	15	5/32
FX-11	1/2	1 1/8	3/8	3/8	3/4	1 1/4	7/8	10-32	15	5/32
FX-12	1/2	1 1/8	3/8	3/8	3/4	1 1/4	7/8	10-32	15	5/32
FX-13	7/16	1 3/16	3/8	3/8	3/4	1 1/4	7/8	10-32	17	5/32
FX-14	1/2	1 3/16	3/8	3/8	3/4	1 1/4	7/8	10-32	17	5/32
FX-15	1/2	1 1/4	3/8	3/8	3/4	1 1 1/2	1	10-32	13	3/16
FX-16	1/2	1 5/16	3/8	3/8	3/4	1 1 3/4	1	10-32	13	3/16
FX-17	1/2	1 3/8	7/16	1/2	15/16	1 17/32	1 1/8	1/4	15	3/16
FX-18	5/16	1 3/8	7/16	1/2	15/16	1 17/32	1 1/8	1/4	15	3/16
FX-19	5/8	1 3/8	7/16	1/2	15/16	1 17/32	1 1/8	1/4	15	3/16
FX-20	1/2	1 1/2	7/16	1/2	15/16	1 39/64	1 1/8	1/4	12	1/4
FX-21	5/16	1 1/2	7/16	1/2	15/16	1 39/64	1 1/8	1/4	17	5/16
FX-22	5/8	1 1/2	7/16	1/2	15/16	1 39/64	1 1/8	1/4	17	5/16
FX-23	1/2	1 5/16	7/16	1/2	15/16	1 23/32	1 1/8	1/4	13	1/4
FX-24	5/8	1 5/16	7/16	1/2	15/16	1 23/32	1 1/8	1/4	13	1/4
FX-25	3/4	1 5/16	7/16	1/2	15/16	1 23/32	1 1/8	1/4	19	5/16
FX-26	5/8	1 5/8	1/2	1/2	1	1 13/16	1 1/8	1/4	13	1/4
FX-27	3/4	1 5/8	1/2	1/2	1	1 13/16	1 1/8	1/4	19	5/16
FX-28	5/8	1 3/4	9/16	1/2	1 1/16	1 29/32	1 1/4	1/4	14	1/4
FX-29	3/4	1 3/4	9/16	1/2	1 1/16	1 29/32	1 1/4	1/4	14	1/4
FX-30	3/4	1 7/8	1/2	1/2	1	2 1/32	1 1/4	1/4	13	5/32
FX-31	1/8	1 7/8	1/2	1/2	1	2 1/32	1 5/8	1/4	15	1/4
FX-32	3/4	2	1/2	1/2	1	2 5/16	1 3/8	1/4	13	5/16
FX-33	1/8	2	1/2	1/2	1	2 5/16	1 5/8	1/4	17	5/32
FX-34	1	2	1/2	1/2	1	2 5/16	1 5/8	1/4	17	5/32
FX-35	3/4	2 5/16	5/8	1/2	1 1/8	2 7/32	1 1/2	1/4	14	5/16
FX-36	1/8	2 5/16	5/8	1/2	1 1/8	2 7/32	1 5/8	1/4	14	5/16
FX-37	3/4	2 1/8	5/8	1/2	1 1/8	2 1/4	1 1/2	1/4	15	5/16
FX-38	7/8	2 1/8	5/8	1/2	1 1/8	2 1/4	1 5/8	1/4	15	5/16
FX-39	1 1/16	2 1/8	5/8	1/2	1 1/8	2 1/4	1 5/8	1/4	15	5/16
FX-40	1	2 1/8	5/8	1/2	1 1/8	2 1/4	1 5/8	1/4	15	5/16
FX-41	3/4	2 1/4	5/8	1/2	1 1/8	2 7/16	1 1/2	1/4	12	3/4
FX-42	7/8	2 1/4	5/8	1/2	1 1/8	2 7/16	1 5/8	1/4	13	1 1/32
FX-43	1 1/16	2 1/4	5/8	1/2	1 1/8	2 7/16	1 5/8	1/4	15	5/16
FX-44	1	2 1/4	5/8	1/2	1 1/8	2 7/16	1 5/8	1/4	15	5/16
FX-45	3/4	2 5/16	5/8	1/2	1 1/8	2 15/32	1 1/2	1/4	13	3/4
FX-46	7/8	2 5/16	5/8	1/2	1 1/8	2 15/32	1 5/8	1/4	13	3/4
FX-47	1 1/16	2 5/16	5/8	1/2	1 1/8	2 15/32	1 5/8	1/4	16	5/16
FX-48	1	2 5/16	5/8	1/2	1 1/8	2 15/32	1 5/8	1/4	16	5/16
FX-49	7/8	2 1/2	5/8	5/8	1 1/4	2 41/64	1 3/4	5/16	14	3/4
FX-50	1 1/16	2 1/2	5/8	5/8	1 1/4	2 41/64	1 3/4	5/16	14	3/4
FX-51	1	2 1/2	5/8	5/8	1 1/4	2 41/64	1 3/4	5/16	14	3/4
FX-52	1	2 17/32	5/8	5/8	1 3/4	2 23/32	2	5/16	16	1 1/32
FX-53	1 1/16	2 17/32	5/8	5/8	1 3/4	2 23/32	2	5/16	16	1 1/32
FX-54	1 1/4	2 17/32	5/8	5/8	1 3/4	2 23/32	2	5/16	18	5/16
FX-55	1	3.064	3/4	3/4	1 1/2	3 1/4	2 1/4	3/8	15	7/16
FX-56	1 1/16	3.064	3/4	3/4	1 1/2	3 1/4	2 1/4	3/8	15	7/16
FX-57	1 1/4	3.064	3/4	3/4	1 1/2	3 1/4	2 1/4	3/8	15	7/16
FX-58	1 5/16	3.064	3/4	3/4	1 1/2	3 1/4	2 1/4	3/8	15	7/16
FX-59	1 3/8	3.064	3/4	3/4	1 1/2	3 1/4	2 1/4	3/8	15	7/16
FX-60	1 7/8	3.064	3/4	3/4	1 1/2	3 1/4	2 1/4	3/8	18	3/8
FX-61	1 1/2	3.064	3/4	3/4	1 1/2	3 1/4	2 1/4	3/8	18	3/8

GROUND

COMMERCIAL BALL BEARINGS

TYPE B

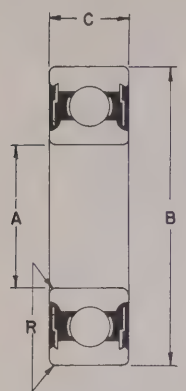
Set Screw Bearings Series GX



SOME SIZES
NOT CURRENTLY
IN PRODUCTION.
CHECK FOR
AVAILABILITY.

These bearings are suitable for speeds under 2500 R.P.M. Outer race rings have all surfaces ground. Bore, sides and ball track of inner race ring are ground. Both inner and outer race rings are carbonized, normalized, hardened and tempered. Outer member of outer ring is drawn from flat steel and is ground on the outside diameter and on the flush side. Balls are of high carbon steel with .65 chromium, thru-hardened. Two set screws are furnished.

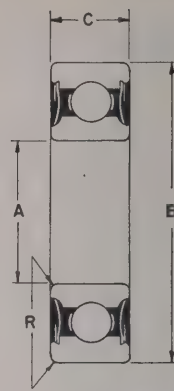
OBB No.	Bore A	Outside Diam. B	Width C	Extension D	Width E	Extension F	Set Screw	Balls	
								No.	Size
GX- 1	1/4	11/16	1/4	3/8	5/8	1/16	10-32	10	1/8
GX- 2	1/4	3/4	1/4	3/8	5/8	1/16	10-32	11	1/8
GX- 3	1/4	7/8	1/4	3/8	5/8	5/8	10-32	12	1/8
GX- 4	1/4	19/32	5/16	3/8	11/16	3/4	10-32	15	1/8
GX- 5	5/16	19/32	5/16	3/8	11/16	3/4	10-32	15	1/8
GX- 6	3/8	19/32	5/16	3/8	11/16	3/4	10-32	15	1/8
GX- 7	1/4	15/16	5/16	3/8	11/16	3/4	10-32	15	1/8
GX- 8	5/16	15/16	5/16	3/8	11/16	3/4	10-32	15	1/8
GX- 9	3/8	15/16	5/16	3/8	11/16	3/4	10-32	15	1/8
GX-10	5/16	11/16	1/4	3/8	5/8	3/4	10-32	13	5/32
GX-11	3/8	11/16	1/4	3/8	5/8	3/4	10-32	13	5/32
GX-12	7/16	11/16	1/4	3/8	5/8	3/4	10-32	13	5/32
GX-13	3/8	11/8	3/8	3/8	3/4	7/8	10-32	15	5/32
GX-14	7/16	11/8	3/8	3/8	3/4	7/8	10-32	15	5/32
GX-15	1/2	11/8	3/8	3/8	3/4	7/8	10-32	15	5/32
GX-16	3/8	19/32	5/16	3/8	11/16	1	10-32	17	5/32
GX-17	7/16	19/32	5/16	3/8	11/16	1	10-32	17	5/32
GX-18	1/2	19/32	5/16	3/8	11/16	1	10-32	17	5/32
GX-19	7/16	13/8	7/16	3/8	13/16	1	10-32	15	3/16
GX-20	1/2	13/8	7/16	3/8	13/16	1	10-32	15	3/16
GX-21	9/16	13/8	7/16	3/8	13/16	1	10-32	15	3/16
GX-22	5/8	13/8	7/16	3/8	13/16	1 1/16	10-32	15	3/16
GX-23	1/2	11/2	7/16	1/2	15/16	1 1/8	1/4	17	3/16
GX-24	9/16	11/2	7/16	1/2	15/16	1 1/8	3/4	17	3/16
GX-25	5/8	11/2	7/16	1/2	15/16	1 1/8	3/4	17	3/16
GX-26	1/2	15/8	3/8	1/2	7/8	1 1/8	1/4	13	1/4
GX-27	9/16	15/8	3/8	1/2	7/8	1 1/8	1/4	13	1/4
GX-28	5/8	15/8	3/8	1/2	7/8	1 1/8	1/4	13	1/4
GX-29	5/8	13/4	9/16	1/2	1 1/16	1 1/4	1/4	14	1/4
GX-30	11/16	13/4	9/16	1/2	1 1/16	1 1/4	1/4	14	1/4
GX-31	3/4	13/4	9/16	1/2	1 1/16	1 1/4	1/4	14	1/4
GX-32	5/8	17/8	1/2	1/2	1	1 7/8	1/4	12	5/16
GX-33	11/16	17/8	1/2	1/2	1	1 7/8	1/4	15	1/4
GX-34	3/4	17/8	1/2	1/2	1	1 7/8	1/4	15	1/4
GX-35	7/8	17/8	1/2	1/2	1	1 7/8	1/4	15	1/4
GX-36	3/4	2	7/16	1/2	15/16	1 3/8	1/4	14	5/32
GX-37	13/16	2	7/16	1/2	15/16	1 3/8	1/4	14	5/32
GX-38	7/8	2	7/16	1/2	15/16	1 3/8	1/4	14	5/32
GX-39	15/16	2	7/16	1/2	15/16	1 3/8	1/4	17	1/4
GX-40	1	2	7/16	1/2	15/16	1 3/8	1/4	17	1/4
GX-41	3/4	2	5/8	1/2	1 1/8	1 3/8	1/4	14	5/32
GX-42	13/16	2	5/8	1/2	1 1/8	1 3/8	1/4	14	5/32
GX-43	7/8	2	5/8	1/2	1 1/8	1 3/8	1/4	14	5/32
GX-44	15/16	2	5/8	1/2	1 1/8	1 3/8	1/4	17	1/4
GX-45	1	2	5/8	1/2	1 1/8	1 3/8	1/4	17	1/4
GX-46	3/4	2 1/4	5/8	1/2	1 1/8	1 5/8	1/4	15	5/16
GX-47	13/16	2 1/4	5/8	1/2	1 1/8	1 5/8	3/4	15	5/16
GX-48	7/8	2 1/4	5/8	1/2	1 1/8	1 5/8	3/4	15	5/16
GX-49	15/16	2 1/4	5/8	1/2	1 1/8	1 5/8	3/4	15	5/16
GX-50	1	2 1/4	5/8	1/2	1 1/8	1 5/8	3/4	15	5/16
GX-501	1 1/8	2 1/4	5/8	3/4	1 3/8	1 3/4	5/16	20	3/4
GX-51	7/8	2 5/8	11/16	1/2	1 3/8	1 3/4	1/4	14	3/8
GX-52	13/16	2 5/8	11/16	1/2	1 3/8	1 3/4	1/4	14	3/8
GX-53	1	2 5/8	11/16	1/2	1 3/8	1 3/4	1/4	14	3/8
GX-54	1 1/8	2 5/8	11/16	1/2	1 3/8	1 3/4	1/4	14	3/8
GX-55	1 3/16	2 5/8	11/16	1/2	1 3/8	1 3/4	1/4	16	11/32
GX-56	1 1/4	2 5/8	11/16	1/2	1 3/8	1 3/4	1/4	18	5/16
GX-57	1	2 3/4	5/8	5/8	1 1/4	2	5/16	16	3/8
GX-58	1 1/8	2 3/4	5/8	5/8	1 1/4	2	5/16	16	3/8
GX-59	1 3/16	2 3/4	5/8	5/8	1 1/4	2	5/16	16	3/8
GX-60	1 1/4	2 3/4	5/8	5/8	1 1/4	2	5/16	16	3/8
GX-61	1 3/8	2 3/4	5/8	5/8	1 1/4	2	5/16	16	3/8
GX-62	1 7/16	2 3/4	5/8	5/8	1 1/4	2 1/8	5/16	21	5/16
GX-63	1 1/4	3 1/2	11/16	5/8	1 5/16	2 1/16	5/16	17	13/32
GX-64	1 3/8	3 1/2	11/16	5/8	1 5/16	2 1/16	5/16	17	13/32
GX-65	1 7/16	3 1/2	11/16	5/8	1 5/16	2 1/16	5/16	17	13/32
GX-66	1 1/2	3 1/2	11/16	5/8	1 5/16	2 1/16	5/16	17	13/32

GROUND COMMERCIAL BALL BEARINGS**SOLID RACE TYPE WITH BALL CAGE**

Double Shield

These bearings have solid one piece inner and outer races machined from high quality steel. They are carefully heat treated and uniformly hardened. All important surfaces are ground to close tolerances as noted in the tables below, and special attention is given to the finish of the ball grooves. A ball cage or separator is used to evenly space the through hardened balls and reduce internal friction.

As illustrated, these bearings are available in open type, single or double shielded, single or double sealed and on special order with one shield and one seal. The sealing material is plastic and even though it is held with pressure against the sealing surface, it causes very little drag, but still seals effectively. All double shielded and double sealed types are furnished pre-packed with grease.



Double Seal

BEARING NUMBERING					DIMENSIONS					
					Bore A		O.D. B		Width C	
No. Shields	Single Shield	Double Shield	Single Seal	Double Seal	Inches	Tolerance + .0000 to Minus	Inches	Tolerance + .0000 to Minus	Open Type + .000" - .005"	Sealed or Shielded + .000 - .005

BR SERIES

BR-01	BR-701	BR-7701	BR-901	BR-9901	$\frac{1}{16}$	-.001	$\frac{11}{16}$	-.0005	$\frac{1}{4}$	$\frac{1}{4}$
BR-02	BR-702	BR-7702	BR-902	BR-9902	$\frac{1}{4}$	-.001	$\frac{11}{16}$	-.0005	$\frac{1}{4}$	$\frac{1}{4}$
BR-03	BR-703	BR-7703	BR-903	BR-9903	$\frac{5}{16}$	-.001	$\frac{7}{8}$	-.0005	$\frac{9}{32}$	$\frac{9}{32}$
BR-04	BR-704	BR-7704	BR-904	BR-9904	$\frac{3}{8}$	-.001	$\frac{7}{8}$	-.0005	$\frac{9}{32}$	$\frac{9}{32}$
BR-05	BR-705	BR-7705	BR-905	BR-9905	$\frac{7}{16}$	-.001	$\frac{29}{32}$	-.0005	$\frac{5}{16}$	$\frac{5}{16}$
BR-06	BR-706	BR-7706	BR-906	BR-9906	$\frac{9}{16}$	-.001	$\frac{29}{32}$	-.0005	$\frac{5}{16}$	$\frac{5}{16}$
BR-14	BR-714	BR-7714	BR-914	BR-9914	$\frac{5}{8}$	-.001	$1\frac{1}{2}$	-.0005	$\frac{5}{8}$	$\frac{5}{8}$
BR-15	BR-715	BR-7715	BR-915	BR-9915	$\frac{7}{16}$	-.001	$1\frac{1}{2}$	-.0005	$\frac{5}{8}$	$\frac{5}{8}$
BR-16	BR-716	BR-7716	BR-916	BR-9916	$\frac{1}{2}$	-.0005	$1\frac{1}{2}$	-.0005	$\frac{5}{8}$	$\frac{5}{8}$
BR-20	BR-720	BR-7720	BR-920	BR-9920	$\frac{7}{16}$	-.001	$1\frac{3}{4}$	-.0005	$\frac{7}{16}$	$\frac{7}{16}$
BR-21	BR-721	BR-7721	BR-921	BR-9921	$\frac{1}{2}$	-.0005	$1\frac{3}{4}$	-.0005	$\frac{7}{16}$	$\frac{7}{16}$
BR-22	BR-722	BR-7722	BR-922	BR-9922	$\frac{9}{16}$	-.0005	$1\frac{3}{4}$	-.0005	$\frac{7}{16}$	$\frac{7}{16}$
BR-23	BR-723	BR-7723	BR-923	BR-9923	$\frac{5}{8}$	-.0005	$1\frac{3}{4}$	-.0005	$\frac{7}{16}$	$\frac{7}{16}$
BR-28	BR-728	BR-7728	BR-928	BR-9928	$\frac{5}{8}$	-.0005	$1\frac{3}{4}$	-.0005	$\frac{1}{2}$	$\frac{1}{2}$
BR-29	BR-729	BR-7729	BR-929	BR-9929	$\frac{11}{16}$	-.0005	$1\frac{3}{4}$	-.0005	$\frac{1}{2}$	$\frac{1}{2}$
BR-30	BR-730	BR-7730	BR-930	BR-9930	$\frac{3}{4}$	-.0005	$1\frac{3}{4}$	-.0005	$\frac{1}{2}$	$\frac{1}{2}$
BR-33	BR-733	BR-7733	BR-933	BR-9933	$\frac{5}{8}$	-.0005	$1\frac{3}{4}$	-.0005	$\frac{1}{2}$	$\frac{1}{2}$
BR-34	BR-734	BR-7734	BR-934	BR-9934	$\frac{11}{16}$	-.0005	$1\frac{3}{4}$	-.0005	$\frac{1}{2}$	$\frac{1}{2}$
BR-35	BR-735	BR-7735	BR-935	BR-9935	$\frac{3}{4}$	-.0005	$1\frac{3}{4}$	-.0005	$\frac{1}{2}$	$\frac{1}{2}$
BR-38	BR-738	BR-7738	BR-938	BR-9938	$\frac{3}{4}$	-.0005	2	-.0006	$\frac{9}{16}$	$\frac{9}{16}$
BR-39	BR-739	BR-7739	BR-939	BR-9939	$\frac{13}{16}$	-.0005	2	-.0006	$\frac{9}{16}$	$\frac{9}{16}$
BR-40	BR-740	BR-7740	BR-940	BR-9940	$\frac{1}{8}$	-.0005	2	-.0006	$\frac{9}{16}$	$\frac{9}{16}$
BR-41	BR-741	BR-7741	BR-941	BR-9941	1	-.0005	2	-.0006	$\frac{9}{16}$	$\frac{9}{16}$

BS SERIES

BS-4A	BS-74A	BS-774A	BS-94A	BS-994A	$\frac{1}{4}$	-.001	$\frac{3}{4}$	-.0005	$\frac{7}{32}$	$\frac{9}{32}$
BS-6	BS-76	BS-776	BS-96	BS-996	$\frac{5}{8}$	-.001	$\frac{1}{4}$	-.0005	$\frac{7}{32}$	$\frac{9}{32}$
BS-8	BS-78	BS-778	BS-98	BS-998	$\frac{1}{2}$	-.0005	$1\frac{1}{4}$	-.0005	$\frac{1}{4}$	$\frac{1}{4}$
BS-10	BS-710	BS-7710	BS-910	BS-9910	$\frac{5}{8}$	-.0005	$1\frac{1}{4}$	-.0005	$\frac{9}{32}$	$\frac{11}{32}$
BS-12	BS-712	BS-7712	BS-912	BS-9912	$\frac{3}{4}$	-.0005	$1\frac{1}{4}$	-.0005	$\frac{9}{32}$	$\frac{11}{32}$
BS-14	BS-714	BS-7714	BS-914	BS-9914	$\frac{1}{8}$	-.0005	$1\frac{1}{4}$	-.0005	$\frac{9}{32}$	$\frac{11}{32}$
BS-16	BS-716	BS-7716	BS-916	BS-9916	1	-.0005	2	-.0006	$\frac{1}{2}$	$\frac{1}{2}$
BS-18	BS-718	BS-7718	BS-918	BS-9918	$1\frac{1}{8}$	-.0005	$2\frac{1}{8}$	-.0006	$\frac{1}{2}$	$\frac{1}{2}$

LOAD RATING

Load ratings shown are based on 2500 hours average life. Load ratings for 1500 and 5000 hours average life are 120 percent and 80 percent respectively of those for 2500 hours average life.

In addition to radial loads, these bearings will operate under thrust loads from either direction. When used for pure thrust loads, the limit ratings listed below apply.

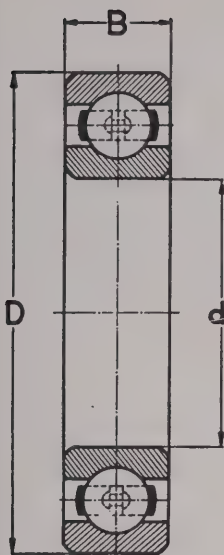
When the bearings are used under combined loading, it is necessary that the radial and thrust components of the load in the application be converted into an equivalent radial load for the purpose of size selection. The approximate value of the equivalent radial load is obtained from the following formula:
 Equivalent Radial Load = (.56 x radial component of the load) + (1.5 x thrust component of the load.)

Pure Thrust Limit Load Ratings in Pounds		Basic Dynamic Load Rating in Pounds	Pure Thrust Limit Load Ratings in Pounds		Basic Dynamic Load Rating in Pounds	For load ratings at various speeds, multiply the basic dynamic load rating by the following factors:							
BR-01 through BR-02	35	265	BR-20 through BR-23	250	860	50	100	500	1500	2500	3500	5000	
BR-03 through BR-06	60	430	BR-28 through BR-35	400	1050	RPM	RPM	RPM	RPM	RPM	RPM	RPM	
BR-14 through BR-16	215	620	BR-38 through BR-41	465	1220	.874	.693	.405	.281	.237	.212	.188	

SKF BALL BEARINGS

SINGLE ROW RADIAL DEEP GROOVE CONRAD TYPE

6200 LIGHT SERIES



STANDARD

Standard No.	"Z" Series Shield on One Side	"2Z" Series Shields on Both Sides	BORE (d)		OUTSIDE DIA. (D)		WIDTH (B)	
			Mm	Inches	Mm	Inches	Mm	Inches
6200	6200-Z	6200-2Z	10	.3937	30	1.1811	9	.3543
6201 ¹	6201-Z	6201-2Z	12	.4724	32	1.2598	10	.3937
6202 ²	6202-Z	6202-2Z	15	.5906	35	1.3780	11	.4331
6203	6203-Z	6203-2Z	17	.6693	40	1.5748	12	.4724
6204 ³	6204-Z	6204-2Z	20	.7874	47	1.8504	14	.5512
6205	6205-Z	6205-2Z	25	.9843	52	2.0472	15	.5906
6206	6206-Z	6206-2Z	30	1.1811	62	2.4409	16	.6299
6207	6207-Z	6207-2Z	35	1.3780	72	2.8346	17	.6693
6208	6208-Z	6208-2Z	40	1.5748	80	3.1496	18	.7087
6209	6209-Z	6209-2Z	45	1.7717	85	3.3465	19	.7480
6210	6210-Z	6210-2Z	50	1.9685	90	3.5433	20	.7874
6211	6211-Z	6211-2Z	55	2.1654	100	3.9370	21	.8268
6212	6212-Z	6212-2Z	60	2.3622	110	4.3307	22	.8661
6213	6213-Z	6213-2Z	65	2.5591	120	4.7244	23	.9055
6214	6214-Z	6214-2Z	70	2.7559	125	4.9213	24	.9449
6215	6215-Z	6215-2Z	75	2.9528	130	5.1181	25	.9843
6216	6216-Z	6216-2Z	80	3.1496	140	5.5118	26	1.0236
6217	6217-Z	6217-2Z	85	3.3465	150	5.9055	28	1.1024
6218	6218-Z	6218-2Z	90	3.5433	160	6.2992	30	1.1811
6219	6219-Z	6219-2Z	95	3.7402	170	6.6929	32	1.2598
6220	6220-Z	6220-2Z	100	3.9370	180	7.0866	34	1.3386
6221	6221-Z	6221-2Z	105	4.1339	190	7.4803	36	1.4173
6222	6222-Z	6222-2Z	110	4.3307	200	7.8740	38	1.4961
6224	.....	.....	120	4.7244	215	8.4646	40	1.5748
6226	.....	.....	130	5.1181	230	9.0551	40	1.5748
6228	.....	.....	140	5.5118	250	9.8425	42	1.6535
6230	.....	.....	150	5.9055	270	10.6299	45	1.7717
6232	.....	.....	160	6.2992	290	11.4173	48	1.8898
6234	.....	.....	170	6.6929	310	12.2047	52	2.0472
6236	.....	.....	180	7.0866	320	12.5984	52	2.0472
6238	.....	.....	190	7.4803	340	13.3858	55	2.1654

¹This bearing is also available with 1/8" bore as 465898 Z, 465898 2Z, 465898 RS and 465898 2RS.

²This bearing is also available with 5/8" bore as 466041 Z, 466041 2Z, 466041 RS and 466041 2RS.

³This bearing is also available with 3/4" bore as 465966 Z, 465966 2Z, 465966 RS and 465966 2RS.

6300 MEDIUM SERIES

6300	6300-Z	6300-2Z	10	.3937	35	1.3780	11	.4331
6301	6301-Z	6301-2Z	12	.4724	37	1.4567	12	.4724
6302	6302-Z	6302-2Z	15	.5906	42	1.6535	13	.5118
6303	6303-Z	6303-2Z	17	.6693	47	1.8504	14	.5512
6304	6304-Z	6304-2Z	20	.7874	52	2.0472	15	.5906
6305	6305-Z	6305-2Z	25	.9843	62	2.4409	17	.6693
6306	6306-Z	6306-2Z	30	1.1811	72	2.8346	19	.7480
6307	6307-Z	6307-2Z	35	1.3780	80	3.1496	21	.8268
6308	6308-Z	6308-2Z	40	1.5748	90	3.5433	23	.9055
6309	6309-Z	6309-2Z	45	1.7717	100	3.9370	25	.9843
6310	6310-Z	6310-2Z	50	1.9685	110	4.3307	27	1.0630
6311	6311-Z	6311-2Z	55	2.1654	120	4.7244	29	1.1417
6312	6312-Z	6312-2Z	60	2.3622	130	5.1181	31	1.2205
6313	6313-Z	6313-2Z	65	2.5591	140	5.5118	33	1.2992
6314	6314-Z	6314-2Z	70	2.7559	150	5.9055	35	1.3780
6315	6315-Z	6315-2Z	75	2.9528	160	6.2992	37	1.4567
6316	6316-Z	6316-2Z	80	3.1496	170	6.6929	39	1.5354
6317	6317-Z	6317-2Z	85	3.3465	180	7.0866	41	1.6142
6318	6318-Z	6318-2Z	90	3.5433	190	7.4803	43	1.6929
6319	.....	.....	95	3.7402	200	7.8740	45	1.7717
6320	6320-Z	6320-2Z	100	3.9370	215	8.4646	47	1.8504
6321	.....	.....	105	4.1339	225	8.8543	49	1.9291
6322	.....	.....	110	4.3307	240	9.4488	50	1.9685
6324	.....	.....	120	4.7244	260	10.2362	55	2.1654
6326	.....	.....	130	5.1181	280	11.0236	58	2.2835
6328	.....	.....	140	5.5118	300	11.8110	62	2.4409
6330	.....	.....	150	5.9055	320	12.5984	65	2.5591
6332	.....	.....	160	6.2992	340	13.3858	68	2.6772
6334	.....	.....	170	6.6929	360	14.1732	72	2.8346
6336	.....	.....	180	7.0866	380	14.9606	75	2.9528
6338	.....	.....	190	7.4803	400	15.7480	78	3.0709

6400 HEAVY SERIES

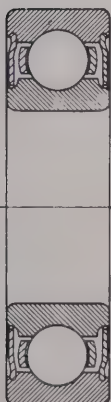
6404	.....	.....	20	.7874	72	2.8346	19	.7480
6405	.....	.....	25	.9843	80	3.1496	21	.8268
6406	.....	.....	30	1.1811	90	3.5433	23	.9055
6407	.....	.....	35	1.3780	100	3.9370	25	.9843
6408	.....	.....	40	1.5748	110	4.3307	27	1.0630
6409	.....	.....	45	1.7717	120	4.7244	29	1.1417
6410	.....	.....	50	1.9685	130	5.1181	31	1.2205
6411	.....	.....	55	2.1654	140	5.5118	33	1.2992
6412	.....	.....	60	2.3622	150	5.9055	35	1.3780
6413	.....	.....	65	2.5591	160	6.2992	37	1.4567
6414	.....	.....	70	2.7559	180	7.0866	42	1.6535
6415	6415-Z	6415-2Z	75	2.9528	190	7.4803	45	1.7717
6416	.....	.....	80	3.1496	200	7.8740	48	1.8898
6417	6417-Z	6417-2Z	85	3.3465	210	8.2677	52	2.0472
6418	.....	.....	90	3.5433	225	8.8583	54	2.1260

^ΔDo not use in new applications as this bearing is not regularly scheduled for production. Consult for availability.

NEED HELP ON BEARINGS—CALL US



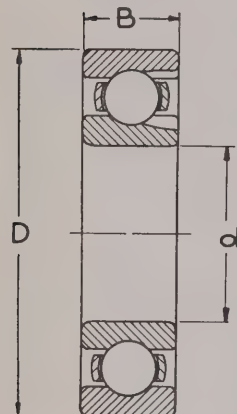
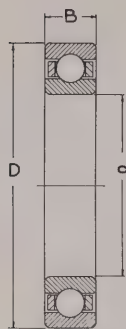
ONE SHIELD



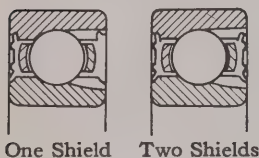
TWO SHIELDS

SKF BALL BEARINGS

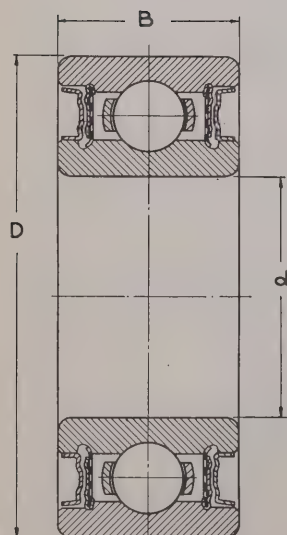
SINGLE ROW RADIAL



Standard



One Shield Two Shields



EXTRA SMALL—30 OR R SERIES

* Stand. No.	"Z" Series Shield on One Side*	"2Z" Series Shields on Both Sides*	BORE (d)		OUTSIDE DIA. (D)		WIDTH (B)	
			Mm	Inches	Mm	Inches	Mm	Inches
R4B	R4B-Z	R4B-2Z	4	.1575	16	.6299	5	.1969
R5B	R5B-Z	R5B-2Z	5	.1969	19	.7480	6	.2363
R6B	R6B-Z	R6B-2Z	6	.2362	19	.7480	6	.2363
R7	R7 -Z	R7 -2Z	7	.2756	22	.8661	7	.2756
R8	R8 -Z	R8 -2Z	8	.3150	22	.8661	7	.2756
R9	R9 -Z	R9 -2Z	9	.3543	26	1.0236	8	.3150

*Old Designation: 34, 34-Z, 34-2Z, etc.

FILLING NOTCH TYPE

LIGHT SERIES

Standard No.	"Z" Series Shield on One Side	"2Z" Series Shields on Both Sides	BORE (d)		OUTSIDE DIA. (D)		WIDTH (B)	
			Mm	Inches	Mm	Inches	Mm	Inches
206 A	206 AZ	206 A2Z	30	1.1811	62	2.4409	16	.6299
207 A	207 AZ	207 A2Z	35	1.3780	72	2.8346	17	.6693
208 A	208 AZ	208 A2Z	40	1.5748	80	3.1496	18	.7087
209 A	209 AZ	209 A2Z	45	1.7717	85	3.3465	19	.7480
210 A	210 AZ	210 A2Z	50	1.9685	90	3.5433	20	.7874
211 A	211 AZ	211 A2Z	55	2.1654	100	3.9370	21	.8268
212 A	212 AZ	212 A2Z	60	2.3622	110	4.3307	22	.8661
216 A	.....	.....	80	3.1496	140	5.5118	26	1.0236
220 A	.....	.....	100	3.9370	180	7.0866	34	1.3386

MEDIUM SERIES

305 A	305 AZ	305 A2Z	25	.9843	62	2.4409	17	.6693
306 A	306 AZ	306 A2Z	30	1.1811	72	2.8346	19	.7480
307 A	307 AZ	307 A2Z	35	1.3780	80	3.1496	21	.8268
308 A	308 AZ	308 A2Z	40	1.5748	90	3.5433	23	.9055
309 A	309 AZ	309 A2Z	45	1.7717	100	3.9370	25	.9843
310 A	310 AZ	310 A2Z	50	1.9685	110	4.3307	27	1.0630
311 A	311 AZ	311 A2Z	55	2.1654	120	4.7244	29	1.1417
312 A	312 AZ	312 A2Z	60	2.3622	130	5.1181	31	1.2205
313 A	313 AZ	313 A2Z	65	2.5591	140	5.5118	33	1.2992

CARTRIDGE TYPE

"Cartridge" bearings are single row bearings made to standard double row width. Provides large grease capacity. Equipped with non-removable double SKF Red Seals, made of

Du Pont "Fairprene" and external rotating fingers. This design provides positive dirt exclusion and lubricant retention.

BEARING NUMBER	BORE (d)		OUTSIDE DIA. (D)		WIDTH (B)	
	Mm	Inches	Mm	Inches	Mm	Inches
▲462204	20	.7874	47	1.8504	20.6	.8125
462205	25	.9843	52	2.0472	20.6	.8125
462206	30	1.1811	62	2.4409	23.8	.9375
462207	35	1.3780	72	2.8346	27.0	1.0625
462208	40	1.5748	80	3.1496	30.2	1.1875
▲462209	45	1.7717	85	3.3465	30.2	1.1875

462304	20	.7874	52	2.0472	22.2	.8750
▲462305	25	.9843	62	2.4409	25.4	1.0000
462306	30	1.1811	72	2.8346	30.2	1.1875
462307	35	1.3780	80	3.1496	34.9	1.3750
▲462308	40	1.5748	90	3.5433	36.5	1.4375
462309	45	1.7717	100	3.9370	39.7	1.5625
▲462310	50	1.9685	110	4.3307	44.4	1.7500
462311	55	2.1654	120	4.7244	49.2	1.9375
462312	60	2.3622	130	5.1181	54.0	2.1250

▲Consult for availability.

SKF BALL BEARINGS SINGLE ROW RADIAL



Shield
and Snap
Ring

Extra Light Series ball bearings, with relatively small outside diameters as compared to bearings of corresponding bore sizes in the light series are suitable where large shaft size is desired but where the housing diameter is definitely restricted.

Available with shields, seals and snap rings in various combinations.

EXTRA LIGHT TYPE

Stand. No.	"Z" Series Shield on One Side	"2Z" Series Shields on Both Sides	With Snap Ring	Shield and Snap Ring	BORE (d)		OUTSIDE DIA. (D)		WIDTH (B)		M	S	T
					Mm	Inches	Mm	Inches	Mm	Inches	in.	in.	in.
6000	6000 Z	6000 2Z	6002 NR	6002 ZNR	10	.3937	26	1.0236	8	.3150	1 3/16	.120	.042
6001	6001 Z	6001 2Z			12	.4724	28	1.1024	8	.3150			
6002	6002 Z	6002 2Z			15	.5906	32	1.2598	9	.3543			
6003	6003 Z	6003 2Z			17	.6693	35	1.3780	10	.3937			
6004	6004 Z	6004 2Z	6008 NR	6008 ZNR	20	.7874	42	1.6535	12	.4724	2 3/32	.120	.042
6005	6005 Z	6005 2Z			25	.9843	47	1.8504	12	.4724			
6006	6006 Z	6006 2Z			30	1.1811	55	2.1654	13	.5118			
6007	6007 Z	6007 2Z			35	1.3780	62	2.4409	14	.5512			
6008	6008 Z	6008 2Z	6010 NR	6010 ZNR	40	1.5748	68	2.6772	15	.5906	3 13/32	.159	.065
6009	6009 Z	6009 2Z			45	1.7717	75	2.9528	16	.6299			
6010	6010 Z	6010 2Z			50	1.9685	80	3.1496	16	.6299			
6011	6011 Z	6011 2Z			55	2.1654	90	3.5433	18	.7087			
6012	6012 Z	6012 2Z	6013 NR	6013 ZNR	60	2.3622	95	3.7402	18	.7087	4 3/16	.204	.095
6013	6013 Z	6013 2Z			65	2.5591	100	3.9370	18	.7087			
6014	6014 Z	6014 2Z			70	2.7559	110	4.3307	20	.7874			
6015	6015 Z	6015 2Z			75	2.9528	115	4.5276	20	.7874			
6016	6016 Z	6016 2Z	6017 NR	6017 ZNR	80	3.1496	125	4.9213	22	.8661	5 1/2	.218	.109
6017	6017 Z	6017 2Z			85	3.3465	130	5.1181	22	.8661			
6018	6018 Z	6018 2Z			90	3.5433	140	5.5118	24	.9449			
6019	6019 Z	6019 2Z			95	3.7402	145	5.7087	24	.9449			
6020	6020 Z	6020 2Z	6020 NR	6020 ZNR	100	3.9370	150	5.9055	24	.9449	6 3/32	.250	.109
6021	6021 Z	6021 2Z			105	4.1339	160	6.2992	26	1.0236			
6022	6022 Z	6022 2Z			110	4.3307	170	6.6929	28	1.1024			
6024	6024 Z	6024 2Z			120	4.7244	180	7.0866	28	1.1024			
6026	6026 Z	6026 2Z	6026 NR	6026 ZNR	130	5.1181	200	7.8740	33	1.2992	7 1/2	.261	.120
6028	6028 Z	6028 2Z			140	5.5118	210	8.2677	33	1.2992			
6030	6030 Z	6030 2Z			150	5.9055	225	8.8583	35	1.3780			

*Consult for availability.

SNAP RING TYPE

LIGHT SERIES

CONRAD TYPE		FILLING NOTCH TYPE		(d)		(D)		(B)		(H)	(M)	(T)
With Snap Ring	Shield and Snap Ring	With Snap Ring	Shield and Snap Ring	Mm	In.	Mm	In.	Mm	In.	In.	In.	In.
6200-NR	6200-ZNR	.....	.....	10	.3937	30	1.1811	9	.3543	.078	1 23/64	.042
6203-NR	6203-ZNR	.....	.....	17	.6693	40	1.5748	12	.4724	.078	1 3/4	.042
6204-NR	6204-ZNR	.....	.....	20	.7874	47	1.8504	14	.5512	.094	2 1/16	.042
6205-NR	6205-ZNR	.....	.....	25	.9843	52	2.0472	15	.5906	.094	2 17/64	.042
6206-NR	6206-ZNR	206-ANR	206-AZNR	30	1.1811	62	2.4409	16	.6299	.125	2 21/32	.065
6207-NR	6207-ZNR	207-ANR	207-AZNR	35	1.3780	72	2.8346	17	.6693	.125	3 5/64	.065
6208-NR	6208-ZNR	208-ANR	208-AZNR	40	1.5748	80	3.1496	18	.7087	.125	3 13/32	.065
6209-NR	6209-ZNR	209-ANR	209-AZNR	45	1.7717	85	3.3465	19	.7480	.125	3 19/32	.065
6210-NR	6210-ZNR	.....	.....	50	1.9685	90	3.5433	20	.7874	.125	3 31/64	.095
6211-NR	6211-ZNR	211-ANR	211-AZNR	55	2.1654	100	3.9370	21	.8268	.125	4 1/16	.095
6212-NR	6212-ZNR	212-ANR	212-AZNR	60	2.3622	110	4.3307	22	.8661	.125	4 37/64	.095
6213-NR	6213-ZNR	.....	.....	65	2.5591	120	4.7244	23	.9055	.156	5 5/32	.109
6215-NR	6215-ZNR	.....	.....	75	2.9528	130	5.1181	25	.9843	.156	5 1/2	.109
6216-NR	6216-ZNR	216-ANR	216-AZNR	80	3.1496	140	5.5118	26	1.0236	.188	5 31/64	.109
6217-NR	6217-ZNR	.....	.....	85	3.3465	150	5.9055	28	1.1024	.188	6 3/32	.109

MEDIUM SERIES

6304-NR	6304-ZNR	.....	.....	20	.7874	52	2.0472	15	.5906	.094	2 17/64	.042
6305-NR	6305-ZNR	.....	.....	25	.9843	62	2.4409	17	.6693	.125	2 21/32	.065
6306-NR	6306-ZNR	306-ANR	306-AZNR	30	1.1811	72	2.8346	19	.7480	.125	3 5/64	.065
6307-NR	6307-ZNR	307-ANR	307-AZNR	35	1.3780	80	3.1496	21	.8268	.125	3 13/32	.065
6308-NR	6308-ZNR	308-ANR	308-AZNR	40	1.5748	90	3.5433	23	.9055	.125	3 31/64	.095
6309-NR	6309-ZNR	309-ANR	309-AZNR	45	1.7717	100	3.9370	25	.9843	.125	4 1/16	.095
6310-NR	6310-ZNR	310-ANR	310-AZNR	50	1.9685	110	4.3307	27	1.0630	.125	4 37/64	.095
6311-NR	6311-ZNR	311-ANR	311-AZNR	55	2.1654	120	4.7244	29	1.1417	.156	5 5/32	.109
6312-NR	6312-ZNR	312-ANR	312-AZNR	60	2.3622	130	5.1181	31	1.2205	.156	5 1/2	.109
6313-NR	6313-ZNR	313-ANR	313-AZNR	65	2.5591	140	5.5118	33	1.2992	.188	5 31/64	.109

Note: When shield is required on same side as snap ring, order as ZNBR.

NEED HELP ON BEARINGS—CALL US

SKF BALL BEARINGS

FAIRPRENE—RED SEAL TYPE

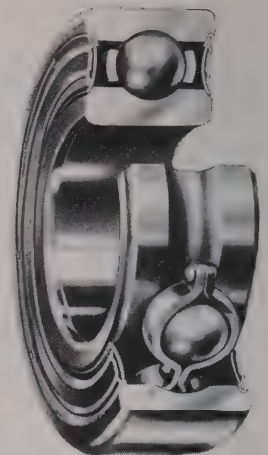


Type RS
One Red Seal



Type 2RS
Two Red Seals

SKF Fairprene sealed bearings provide maximum sealing efficiency with no sacrifice in compactness. They are held to the same widths as standard, unsealed bearings.



Bearing No. with one RED Seal	Bearing No. with two RED Seals	BORE		O. DIA.		WIDTH	
		Mm	Inches	Mm	Inches	Mm	Inches

EXTRA SMALL R SERIES

R7-RS	R7-2RS	7	.2756	22	.8661	7	.2756
R8-RS	R8-2RS	8	.3150	22	.8661	7	.2756
R9-RS	R9-2RS	9	.3543	26	1.0236	8	.3150

EXTRA LIGHT

6000 RS	6000 2RS	10	.3937	26	1.0236	8	.3150
6001 RS	6001 2RS	12	.4724	28	1.1024	8	.3150
6002 RS	6002 2RS	15	.5906	32	1.2598	9	.3543
6003 RS	6003 2RS	17	.6693	35	1.3780	10	.3937
6004 RS	6004 2RS	20	.7874	42	1.6535	12	.4724
6005 RS	6005 2RS	25	.9843	47	1.8504	12	.4724
6006 RS	6006 2RS	30	1.1811	55	2.1654	13	.5118
6007 RS	6007 2RS	35	1.3780	62	2.4409	14	.5512
6008 RS	6008 2RS	40	1.5748	68	2.6772	15	.5906
6010 RS	6010 2RS	50	1.9685	80	3.1496	16	.6299
6011 RS	6011 2RS	55	2.1654	90	3.5433	18	.7087
6013 RS	6013 2RS	65	2.5591	100	3.9370	18	.7087
6022 RS	6022 2RS	110	4.3307	170	6.6929	28	1.1024

LIGHT SERIES

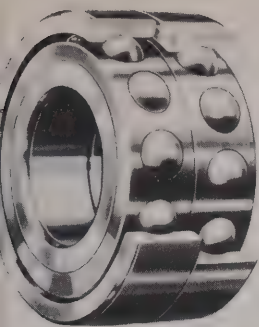
6200-RS	6200-2RS	10	.3937	30	1.1811	9	.3543
6201-RS	6201-2RS	12	.4724	32	1.2598	10	.3937
6202-RS	6202-2RS	15	.5906	35	1.3780	11	.4331
6203-RS	6203-2RS	17	.6693	40	1.5748	12	.4724
6204-RS	6204-2RS	20	.7874	47	1.8504	14	.5512
6205-RS	6205-2RS	25	.9843	52	2.0472	15	.5906
6206-RS	6206-2RS	30	1.1811	62	2.4409	16	.6299
6207-RS	6207-2RS	35	1.3780	72	2.8346	17	.6693
6208-RS	6208-2RS	40	1.5748	80	3.1496	18	.7087
6209-RS	6209-2RS	45	1.7717	85	3.3465	19	.7480
6210-RS	6210-2RS	50	1.9685	90	3.5433	20	.7874
6211-RS	6211-2RS	55	2.1654	100	3.9370	21	.8268
6212-RS	6212-2RS	60	2.3622	110	4.3307	22	.8661
6213-RS	6213-2RS	65	2.5591	120	4.7244	23	.9055
6214-RS	6214-2RS	70	2.7559	125	4.9213	24	.9449
6215-RS	6215-2RS	75	2.9528	130	5.1181	25	.9843
6217-RS	6217-2RS	85	3.3465	150	5.9055	28	1.1024
6220-RS	6220-2RS	100	3.9370	180	7.0866	34	1.3386

Bearing No. with one RED Seal	Bearing No. with two RED Seals	BORE		O. DIA.		WIDTH	
		Mm	Inches	Mm	Inches	Mm	Inches

MEDIUM SERIES

6300-RS	6300-2RS	10	.3937	35	1.3780	11	.4331
6301-RS	6301-2RS	12	.4724	37	1.4567	12	.4724
6302-RS	6302-2RS	15	.5906	42	1.6535	13	.5118
6303-RS	6303-2RS	17	.6693	47	1.8504	14	.5512
6304-RS	6304-2RS	20	.7874	52	2.0472	15	.5906
6305-RS	6305-2RS	25	.9843	62	2.4409	17	.6693
6306-RS	6306-2RS	30	1.1811	72	2.8346	19	.7480
6307-RS	6307-2RS	35	1.3780	80	3.1496	21	.8268
6308-RS	6308-2RS	40	1.5748	90	3.5433	23	.9055
6309-RS	6309-2RS	45	1.7717	100	3.9370	25	.9843
6310-RS	6310-2RS	50	1.9685	110	4.3307	27	1.0630
6311-RS	6311-2RS	55	2.1654	120	4.7244	29	1.1417
6312-RS	6312-2RS	60	2.3622	130	5.1181	31	1.2205

1. Made to standard single row S.A.E. dimensions with races flush on both sides.
2. Assures perfect sealing and retention of grease over great range of speeds.
3. Frictional drag is kept at a minimum, sealing by contact on polished grooves instead of by compression.
4. Sealing ability is constant. Will not glaze. The resiliency of seal provides automatic correction for wear.
5. Provides the same lubricant space as in most off-standard bearings.
6. Simplifies design because of standard dimensions, saves space.



SKF BALL BEARINGS

Super-Precision Type

For the exacting requirements of spindle service and the like, where the ultimate in rigidity is desired, preloaded Super-Precision Bearings are needed. Any 7000CTC/C78/G or 7200CTC/C78/G Series single bearing can be mounted with another to form a duplex bearing, with either DF, DB, or DT arrangement.

Sizes 7007 C/C78G to 7013 C/C78G and 7201 C/C78G to 7211 C/C78G inclusive are made to ABEC 7 tolerances but are not regularly scheduled for production. Consult for availability.

The suffix "/C78" designates ABEC 5. To order ABEC 7 tolerances, the suffix "/C997" is used.

To order non-preloaded type without flush ground faces, omit suffix G.

EXTRA LIGHT TYPE — Super Precision ABEC-5 SERIES 7000CTC/C78/G Preloaded

Single Bearing No.	BORE		O. DIA.		WIDTH	
	Mm	Inches	Mm	Inches	Mm	Inches
7007CTC/C78/G	35	1.3780	62	2.4409	14	.5512
7008CTC/C78/G	40	1.5748	68	2.6772	15	.5906
7009CTC/C78/G	45	1.7717	75	2.9528	16	.6299
7010CTC/C78/G	50	1.9685	80	3.1496	16	.6299
7011CTC/C78/G	55	2.1654	90	3.5433	18	.7087
7012CTC/C78/G	60	2.3622	95	3.7402	18	.7087
7013CTC/C78/G	65	2.5591	100	3.9370	18	.7087
7014CTC/C78/G	70	2.7559	110	4.3307	20	.7874
7015CTC/C78/G	75	2.9528	115	4.5276	20	.7874
7016CTC/C78/G	80	3.1496	125	4.9213	22	.8661
7017CTC/C78/G	85	3.3465	130	5.1181	22	.8661
7018CTC/C78/G	90	3.5433	140	5.5118	24	.9449
7019CTC/C78/G	95	3.7402	145	5.7087	24	.9449
7020CTC/C78/G	100	3.9370	150	5.9055	24	.9449
7021CTC/C78/G	105	4.1339	160	6.2992	26	1.0236
7022CTC/C78/G	110	4.3307	170	6.6929	28	1.1024
7024CTC/C78/G	120	4.7244	180	7.0866	28	1.1024
7026CTC/C78/G	130	5.1181	200	7.8740	33	1.2992
7028CTC/C78/G	140	5.5118	210	8.2677	33	1.2992
7030CTC/C78/G	150	5.9055	225	8.8583	35	1.3780
7032CTC/C78/G	160	6.2992	240	9.4488	38	1.4961
7040CTC/C78/G	200	7.8740	310	12.2047	51	2.0079
7048CMC/C78/G	240	9.4488	360	14.1732	56	2.2047

SUPER PRECISION — Preloaded SERIES 7200CTC/C78/G

Single Bearing Number	BORE		O. DIA.		WIDTH	
	Mm	Inches	Mm	Inches	Mm	Inches
7201CTC/C78/G	12	0.4724	32	1.2598	10	0.3937
7202CTC/C78/G	15	0.5906	35	1.3780	11	0.4331
7203CTC/C78/G	17	0.6693	40	1.5748	12	0.4724
7204CTC/C78/G	20	0.7874	47	1.8504	14	0.5512
7205CTC/C78/G	25	0.9843	52	2.0472	15	0.5906
7206CTC/C78/G	30	1.1811	62	2.4409	16	0.6299
7207CTC/C78/G	35	1.3780	72	2.8346	17	0.6693
7208CTC/C78/G	40	1.5748	80	3.1496	18	0.7087
7209CTC/C78/G	45	1.7717	85	3.3465	19	0.7480
7210CTC/C78/G	50	1.9685	90	3.5433	20	0.7874
7211CTC/C78/G	55	2.1654	100	3.9370	21	0.8268
7212CTC/C78/G	60	2.3622	110	4.3307	22	0.8661
7213CTC/C78/G	65	2.5591	120	4.7244	23	0.9055
7214CTC/C78/G	70	2.7559	125	4.9213	24	0.9449
7215CTC/C78/G	75	2.9528	130	5.1181	25	0.9843
7216CTC/C78/G	80	3.1496	140	5.5118	26	1.0236
7217CTC/C78/G	85	3.3465	150	5.9055	28	1.1024
7218CTC/C78/G	90	3.5433	160	6.2992	30	1.1811
7219CTC/C78/G	95	3.7402	170	6.6929	32	1.2598
7220CTC/C78/G	100	3.9370	180	7.0866	34	1.3386

SUPER PRECISION ABEC-5 Single Row — Radial

Single Bearing No.	BORE		O. DIA.		WIDTH	
	Mm	Inches	Mm	Inches	Mm	Inches
6200 Y/C78	10	.3937	30	1.1811	9	.3543
6201 Y/C78	12	.4724	32	1.2598	10	.3937
6202 Y/C78*	15	.5906	35	1.3780	11	.4331
6203 Y/C78*	17	.6693	40	1.5748	12	.4724
6204 Y/C78*	20	.7874	47	1.8504	14	.5512
6205 Y/C78*	25	.9843	52	2.0472	15	.5906
6206 Y/C78*	30	1.1811	62	2.4409	16	.6299
6207 Y/C78*	35	1.3780	72	2.8346	17	.6693
6208 Y/C78*	40	1.5748	80	3.1496	18	.7087
6209 Y/C78*	45	1.7717	85	3.3465	19	.7480
6210 Y/C78*	50	1.9685	90	3.5433	20	.7874
6211 Y/C78*	55	2.1654	100	3.9370	21	.8268
6212 Y/C78*	60	2.3622	110	4.3307	22	.8661
6213 Y/C78	65	2.5591	120	4.7244	23	.9055
6214 TC/C78	70	2.7559	125	4.9213	24	.9449
6215 TC/C78	75	2.9528	130	5.1181	25	.9843
6216 TC/C78	80	3.1496	140	5.5118	26	1.0236
6217 TC/C78	85	3.3465	150	5.9055	28	1.1024
6218 TC/C78	90	3.5433	160	6.2992	30	1.1811
6220 TC/C78	100	3.9370	180	7.0866	34	1.3386
6222 TC/C78	110	4.3307	200	7.8740	38	1.4961

RADIAL — MEDIUM SERIES

6303 Y/C78	17	.6693	47	1.8504	14	.5512
6304 Y/C78	20	.7874	52	2.0472	15	.5906
6305 Y/C78*	25	.9843	62	2.4409	17	.6693
6306 Y/C78*	30	1.1811	72	2.8346	19	.7480
6307 Y/C78*	35	1.3780	80	3.1496	21	.8268
6308 Y/C78*	40	1.5748	90	3.5433	23	.9055
6309 Y/C78*	45	1.7717	100	3.9370	25	.9843
6310 Y/C78*	50	1.9685	110	4.3307	27	1.0630
6311 Y/C78*	55	2.1654	120	4.7244	29	1.1417
6312 Y/C78*	60	2.3622	130	5.1181	31	1.2205
6313 Y/C78*	65	2.5591	140	5.5118	33	1.2992
6314 Y/C78*	70	2.7559	150	5.9055	35	1.3780
6315 Y/C78	75	2.9528	160	6.2992	37	1.4567
6316 Y/C78	80	3.1496	170	6.6929	39	1.5354
6317 Y/C78	85	3.3465	180	7.0866	41	1.6142

*TC/C78 Type also available.

The suffix "TC" designates bearings with a Phenolic cage.

The suffix "Y" designates a Pressed Brass or Bronze cage.

SKF BALL BEARINGS**DOUBLE ROW****DEEP GROOVE TYPE****5200 LIGHT SERIES**

Bearing No.	Bore (d)		Outside Dia. (D)		Width (B) Inches
	Mm	Inches	Mm	Inches	
5200	10	.3937	30	1.1811	.5625
5201	12	.4724	32	1.2598	.6250
5202	15	.5906	35	1.3780	.6250
5203	17	.6693	40	1.5748	.6875
5204	20	.7874	47	1.8504	.8125
5205	25	.9843	52	2.0472	.8125
5206	30	1.1811	62	2.4409	.9375
5207	35	1.3780	72	2.8346	1.0625
5208	40	1.5748	80	3.1496	1.1875
5209	45	1.7717	85	3.3465	1.1875
5210	50	1.9685	90	3.5433	1.1875
5211	55	2.1654	100	3.9370	1.3125
5212	60	2.3622	110	4.3307	1.4375
5213	65	2.5591	120	4.7244	1.5000
5214	70	2.7559	125	4.9213	1.5625
5215	75	2.9528	130	5.1181	1.6250
5216	80	3.1496	140	5.5118	1.7500
5217	85	3.3465	150	5.9055	1.9375
5218	90	3.5433	160	6.2992	2.0625
5219	95	3.7402	170	6.6929	2.1875
5220	100	3.9370	180	7.0866	2.3750
5221	105	4.1339	190	7.4803	2.5625
5222	110	4.3307	200	7.8740	2.7500

5217, 5218, 5221 and 5222 have inwardly converging contact angles (opposite to what is shown in the figure)

5300 MEDIUM SERIES

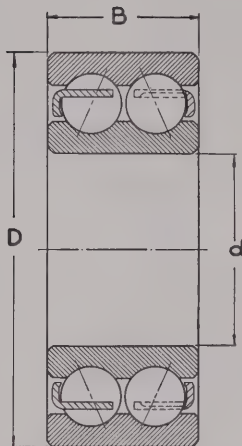
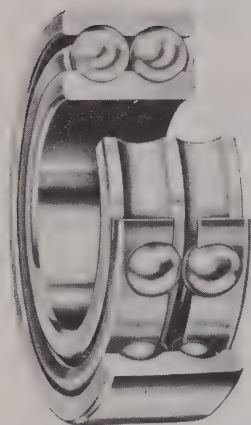
5303	17	.6693	47	1.8504	.8750
5304	20	.7874	52	2.0472	.8750
5305	25	.9843	62	2.4409	1.0000
5306	30	1.1811	72	2.8346	1.1875
5307	35	1.3780	80	3.1496	1.3750
5308	40	1.5748	90	3.5433	1.4375
5309	45	1.7717	100	3.9370	1.5625
5310	50	1.9685	110	4.3307	1.7500
5311	55	2.1654	120	4.7244	1.9375
5312	60	2.3622	130	5.1181	2.1250
5313	65	2.5591	140	5.5118	2.3125
5314	70	2.7559	150	5.9055	2.5000
5315	75	2.9528	160	6.2992	2.6875
5316	80	3.1496	170	6.6929	2.6875
5317	85	3.3465	180	7.0866	2.8750
5318	90	3.5433	190	7.4803	2.8750

5317 and 5318 have inwardly converging contact angles

5400 HEAVY SERIES

△5406	30	1.1811	90	3.5433	1.5625
△5407	35	1.3780	100	3.9370	1.7500
△5408	40	1.5748	110	4.3307	1.9375
△5409	45	1.7717	120	4.7244	2.1250
△5410	50	1.9685	130	5.1181	2.3125
△5411	55	2.1654	140	5.5118	2.5000
△5412	60	2.3622	150	5.9055	2.6250
△5413	65	2.5591	160	6.2992	2.8125
△5414	70	2.7559	180	7.0866	3.1250

△Do not use bearings of this series for new applications as this series is not regularly scheduled for production.



The Double Row Deep Groove Ball Bearing embodies the same principle of design as the single row bearing. However, the grooves for the two rows of balls, are so positioned that the load lines through the balls have an outwardly converging contact angle. This bearing has a lower axial displacement than occurs in the single row design . . . substantial thrust capacity in either direction . . . and high radial capacity due to the two rows of balls.

5200 SERIES—LIGHT—M TYPE

Bearings listed below are old SAE standard widths and are supplied for replacement only.

Bearing No.		Bore		Outside Dia.		Width
New	Former	Mm	In.	Mm	In.	In.
*5203	5803	17	.6693	40	1.5748	.5000
*5204	5804	20	.7874	47	1.8504	.7500
*5205	5805	25	.9843	52	2.0472	.7500
*5206	5806	30	1.1811	62	2.4409	.7500
*5207	5807	35	1.3780	72	2.8346	.8750
*5208	5808	40	1.5748	80	3.1496	1.0000
*5209	5809	45	1.7717	85	3.3465	1.0000
*5210	5810	50	1.9685	90	3.5433	1.0000
*5211	5811	55	2.1654	100	3.9370	1.1875
*5212	5812	60	2.3633	110	4.3307	1.3750
*5213	5813	65	2.5591	120	4.7244	1.3750
*5214	5814	70	2.7559	125	4.9213	1.4375
*5215	5815	75	2.9528	130	5.1181	1.4375
*5216	5816	80	3.1496	140	5.5118	1.6250
*5217	5817	85	3.3465	150	5.9055	1.7500
*5218	5818	90	3.5433	160	6.2992	2.0000

*Obsolete—For reference purpose only

SKF BALL BEARINGS

ANGULAR CONTACT AND DUPLEX

Bearings may be used singly or in pairs. The Flush Ground Angular Contact Ball Bearing—7200-BG, 7300-BG and 7400-BG Series—is ground so that the end surfaces of the bearing are flush on both sides (suffix G). Bearings of this type may therefore be applied in pairs face to face, back to back or in tandem.

7200 LIGHT SERIES

Bearing No.		Bore		Outside Diameter		Width B		Nominal Width ★ (Two Bearings)	
Single	Flush Ground Single								
		Mm	Inches	Mm	Inches	Mm	Inches	Mm	Inches
7205 B	7205 BG	25	.9843	52	2.0472	15	.5906	30	1.1811
7206 B	7206 BG	30	1.1811	62	2.4409	16	.6299	32	1.2598
7207 B	7207 BG	35	1.3780	72	2.8346	17	.6693	34	1.3386
7208 B	7208 BG	40	1.5748	80	3.1496	18	.7087	36	1.4173
7209 B	7209 BG	45	1.7717	85	3.3465	19	.7480	38	1.4961
7210 B	7210 BG	50	1.9685	90	3.5433	20	.7874	40	1.5748
7211 B	7211 BG	55	2.1654	100	3.9370	21	.8268	42	1.6535
7212 B	7212 BG	60	2.3622	110	4.3307	22	.8661	44	1.7323
7213 B	7213 BG	65	2.5591	120	4.7244	23	.9055	46	1.8110
7214 B	7214 BG	70	2.7559	125	4.9213	24	.9449	48	1.8898
7215 B	7215 BG	75	2.9528	130	5.1181	25	.9843	50	1.9685
7216 B	7216 BG	80	3.1496	140	5.5118	26	1.0236	52	2.0472
7217 B	7217 BG	85	3.3465	150	5.9055	28	1.1024	56	2.2047
7218 B	7218 BG	90	3.5433	160	6.2992	30	1.1811	60	2.3622
7219 B	7219 G	95	3.7402	170	6.6929	32	1.2598	64	2.5197
7220	7220 G	100	3.9370	180	7.0866	34	1.3386	68	2.6772
7222	7222 G	110	4.3307	200	7.8740	38	1.4961	76	2.9921
7224	7224 G	120	4.7244	215	8.4646	40	1.5748	80	3.1496
7226	7226 G	130	5.1181	230	9.0551	40	1.5748	80	3.1496
7228	7228 G	140	5.5118	250	9.8425	42	1.6535	84	3.3071
7230	7230 G	150	5.9055	270	10.6299	45	1.7717	90	3.5433
7232	7232 G	160	6.2992	290	11.4173	48	1.8898	96	3.7795
7234	7234 G	170	6.6929	310	12.2047	52	2.0472	104	4.0945
7236	7236 G	180	7.0866	320	12.5984	52	2.0472	104	4.0945

7300 MEDIUM SERIES

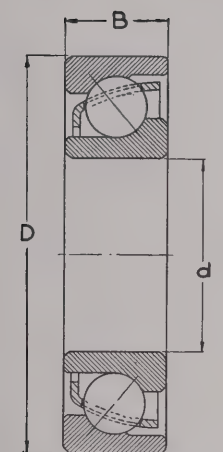
7304 B	7304 BG	20	.7874	52	2.0472	15	.5906	30	1.1811
7305 B	7305 BG	25	.9843	62	2.4409	17	.6693	34	1.3386
7306 B	7306 BG	30	1.1811	72	2.8346	19	.7480	38	1.4961
7307 B	7307 BG	35	1.3780	80	3.1496	21	.8268	42	1.6535
7308 B	7308 BG	40	1.5748	90	3.5433	23	.9055	46	1.8110
7309 B	7309 BG	45	1.7717	100	3.9370	25	.9843	50	1.9685
7310 B	7310 BG	50	1.9685	110	4.3307	27	1.0630	54	2.1260
7311 B	7311 BG	55	2.1654	120	4.7244	29	1.1417	58	2.2835
7312 B	7312 BG	60	2.3622	130	5.1181	31	1.2205	62	2.4409
7313 B	7313 BG	65	2.5591	140	5.5118	33	1.2992	66	2.5984
7314 B	7314 BG	70	2.7559	150	5.9055	35	1.3780	70	2.7559
7315 B	7315 BG	75	2.9528	160	6.2992	37	1.4567	74	2.9134
7316 B	7316 BG	80	3.1496	170	6.6929	39	1.5354	78	3.0709
7317 B	7317 BG	85	3.3465	180	7.0866	41	1.6142	82	3.2283
7318 B	7318 BG	90	3.5433	190	7.4803	43	1.6929	86	3.3858
7319 B	7319 BG	95	3.7402	200	7.8740	45	1.7717	90	3.5433
7320 G	7320 G	100	3.9370	215	8.4646	47	1.8504	94	3.7008
7321	7321 G	105	4.1339	225	8.8583	49	1.9291	98	3.8583
7322	7322 G	110	4.3307	240	9.4488	50	1.9685	100	3.9370
7324	7324 G	120	4.7244	260	10.2362	55	2.1654	110	4.3307
7326	7326 G	130	5.1181	280	11.0236	58	2.2835	116	4.5669
7328	7328 G	140	5.5118	300	11.8110	62	2.4409	124	4.8818
7330	7330 G	150	5.9055	320	12.5984	65	2.5591	130	5.1181
7334	7334 G	170	6.6929	360	14.1732	72	2.8346	144	5.6693

7400 HEAVY SERIES

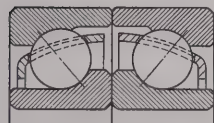
7405 B	7405 BG	25	.9843	80	3.1496	21	.8268	42	1.6535
7406 B	7406 BG	30	1.1811	90	3.5433	23	.9055	46	1.8110
7407 B	7407 BG	35	1.3780	100	3.9370	25	.9843	50	1.9685
7408 B	7408 BG	40	1.5748	110	4.3307	27	1.0630	54	2.1260
7409 B	7409 BG	45	1.7717	120	4.7244	29	1.1417	58	2.2835
7410 B	7410 BG	50	1.9685	130	5.1181	31	1.2205	62	2.4409
7411 B	7411 BG	55	2.1654	140	5.5118	33	1.2992	66	2.5984
7412 B	7412 BG	60	2.3622	150	5.9055	35	1.3780	70	2.7559
7413 B	7413 BG	65	2.5591	160	6.2992	37	1.4567	74	2.9134
7414 B	7414 BG	70	2.7559	180	7.0866	42	1.6535	84	3.3071
7415 B	7415 BG	75	2.9528	190	7.4803	45	1.7717	90	3.5433
7416	7416 G	80	3.1496	200	7.8740	48	1.8898	96	3.7795
7418	7418 G	90	3.5433	225	8.8583	54	2.1260	108	4.2520
7419*	7419 G*	95	3.7402	250	9.8425	55	2.1654	110	4.3307
7420*	7420 G*	100	3.9370	265	10.4320	60	2.3622	120	4.7244
7420 X	7420 XG	100	3.9370	250	9.8425	58	2.2835	116	4.5669

★Original Bearing Width. Face grinding for flush mounting reduces this nominal slightly.

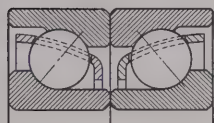
*The dimensions of this bearing are not in accordance with the ASA standard.



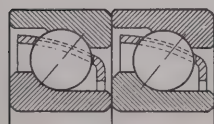
SINGLE BEARING



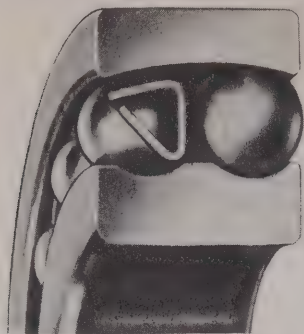
FACE-TO-FACE



BACK-TO-BACK



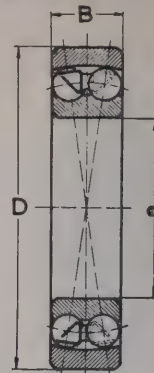
TANDEM



Showing J Type Steel Cage

SKF BALL BEARINGS SELF-ALIGNING TYPE

The Self-Aligning Ball Bearing is self-contained and has two rows of balls. The inner race is spherical. Thus this bearing embodies the self-aligning feature which enables it satisfactorily to compensate for the unavoidable conditions of misalignment caused by frame distortion or shaft deflection without impairing its full load carrying capacity. Self-Aligning ball bearings are dimensionally interchangeable with corresponding deep groove ball bearings.



13300 SERIES—Extra Small Type

Bearing No.	Bore (d)		Outside Diam. (D)		Width (B)	
	Mm	Inches	Mm	Inches	Mm	Inches
13300	5	.1969	19	.7480	6	.2362
13301	6	.2362	19	.7480	6	.2362
13302	7	.2756	22	.8661	7	.2756
13303	8	.3150	22	.8661	7	.2756
13304	9	.3543	26	1.0236	8	.3150
*16608	7	.2756	...	.625	5	.1968
*18156	8	.3150	...	.6875	5	.1968
*18157	9	.3543	...	.750	5	.1968

10400 HEAVY SERIES—Standard Width

New No.	Old No.	Bore (d)		Outside Dia. (D)		Width (B)	
		Mm	Inches	Mm	Inches	Mm	Inches
*10403	403	17	.6693	62	2.4409	17	.6693
*10404	404	20	.7874	72	2.8346	19	.7480
*10405	405	25	.9843	80	3.1496	21	.8268
△10406	406	30	1.1811	90	3.5433	23	.9055
△10407	407	35	1.3780	100	3.9370	25	.9843
△10408	408	40	1.5748	110	4.3307	27	1.0630
△10409	409	45	1.7717	120	4.7244	29	1.1417
△10410	410	50	1.9685	130	5.1181	31	1.2205
△10411	411	55	2.1654	140	5.5118	33	1.2992
△10412	412	60	2.3622	150	5.9055	35	1.3780
△10413	413	65	2.5591	160	6.2992	37	1.4567
△10414	414	70	2.7559	180	7.0866	42	1.6535
△10415	415	75	2.9528	190	7.4803	45	1.7717
△10416	416	80	3.1496	200	7.8740	48	1.8898
△10417	417	85	3.3465	210	8.2677	52	2.0472
△10418	418	90	3.5433	225	8.8583	54	2.1260
△10419	419	95	3.7402	250	9.8425	55	2.1654
*10420	420	100	3.9370	265	10.4331	60	2.3622

1200 LIGHT SERIES—Standard Width

1200	10	.3937	30	1.1811	9	.3543
1201	12	.4724	32	1.2598	10	.3937
1202	15	.5906	35	1.3780	11	.4331
1203	17	.6693	40	1.5748	12	.4724
1204	20	.7874	47	1.8504	14	.5512
1205	25	.9843	52	2.0472	15	.5906
1206	30	1.1811	62	2.4409	16	.6299
1207	35	1.3780	72	2.8346	17	.6693
1208	40	1.5748	80	3.1496	18	.7087
1209	45	1.7717	85	3.3465	19	.7480
1210	50	1.9685	90	3.5433	20	.7874
1211	55	2.1654	100	3.9370	21	.8268
1212	60	2.3622	110	4.3307	22	.8661
1213	65	2.5591	120	4.7244	23	.9055
1214	70	2.7559	125	4.9213	24	.9449
1215	75	2.9528	130	5.1181	25	.9843
1216	80	3.1496	140	5.5118	26	1.0236
1217	85	3.3465	150	5.9055	28	1.1024
1218	90	3.5433	160	6.2992	30	1.1811
1219	95	3.7402	170	6.6929	32	1.2598
1220	100	3.9370	180	7.0866	34	1.3386
*1221	105	4.1339	190	7.4803	36	1.4173
1222	110	4.3307	200	7.8740	38	1.4961
*1226	130	5.1181	230	9.0551	46	1.8110

2200 LIGHT SERIES—Extra Wide

Bearing No.	Bore (d)		Outside Diam. (D)		Width (B)	
	Mm	Inches	Mm	Inches	Mm	Inches
*2200	10	.3937	30	1.1811	14	.551
*2201	12	.4724	32	1.2598	14	.551
*2202	15	.5906	35	1.3780	14	.551
△2203	17	.6693	40	1.5748	16	.630
△2204	20	.7874	47	1.8504	18	.709
△2205	25	.9843	52	2.0472	18	.709
△2206	30	1.1811	62	2.4409	20	.787
△2207	35	1.3780	72	2.8346	23	.906
△2208	40	1.5748	80	3.1496	23	.906
△2209	45	1.7717	85	3.3465	23	.906
△2210	50	1.9685	90	3.5433	23	.906
△2211	55	2.1654	100	3.9370	25	.984
△2212	60	2.3622	110	4.3307	28	1.102
△2213	65	2.5591	120	4.7244	31	1.220
△2214	70	2.7559	125	4.9213	31	1.220
△2215	75	2.9528	130	5.1181	31	1.220
*2216	80	3.1496	140	5.5118	33	1.299
*2217	85	3.3465	150	5.9055	36	1.417
*2218	90	3.5433	160	6.2992	40	1.575
*2219	95	3.7402	170	6.6929	43	1.693
*2220	100	3.9370	180	7.0866	46	1.811
*2221	105	4.1339	190	7.4803	50	1.969
*2222	110	4.3307	200	7.8740	53	2.087

1300 MEDIUM SERIES—Standard Width

*1300	10	.3937	35	1.3780	11	.4331
1301	12	.4724	37	1.4567	12	.4724
1302	15	.5906	42	1.6535	13	.5118
1303	17	.6693	47	1.8504	14	.5512
1304	20	.7874	52	2.0472	15	.5906
1305	25	.9843	62	2.4409	17	.6693
1306	30	1.1811	72	2.8346	19	.7480
1307	35	1.3780	80	3.1496	21	.8268
1308	40	1.5748	90	3.5433	23	.9055
1309	45	1.7717	100	3.9370	25	.9843
1310	50	1.9685	110	4.3307	27	1.0630
1311	55	2.1654	120	4.7244	29	1.1417
1312	60	2.3622	130	5.1181	31	1.2205
1313	65	2.5591	140	5.5118	33	1.2992
1314	70	2.7559	150	5.9055	35	1.3780
1315	75	2.9528	160	6.2992	37	1.4567
1316	80	3.1496	170	6.6929	39	1.5354
1317	85	3.3465	180	7.0866	41	1.6142
1318	90	3.5433	190	7.4803	43	1.6929
1319	95	3.7402	200	7.8740	45	1.7717
1320	100	3.9370	215	8.4646	47	1.8504
1321	105	4.1339	225	8.8583	49	1.9291
1322	110	4.3307	240	9.4488	50	1.9685

2300 MEDIUM SERIES—Extra Wide

*2300	10	.3937	35	1.3780	17	.669
*2301	12	.4724	37	1.4567	17	.669
*2302	15	.5906	42	1.6535	17	.669
2303	17	.6693	47	1.8504	19	.748
2304	20	.7874	52	2.0472	21	.827
2305	25	.9843	62	2.4409	24	.945
2306	30	1.1811	72	2.8346	27	1.063
2307	35	1.3780	80	3.1496	31	1.220
2308	40	1.5748	90	3.5433	33	1.299
2309	45	1.7717	100	3.9370	36	1.417
2310	50	1.9685	110	4.3307	40	1.575
2311	55	2.1654	120	4.7244	43	1.693
2312	60	2.3622	130	5.1181	46	1.811
2313	65	2.5591	140	5.5118	48	1.890
2314	70	2.7559	150	5.9055	51	2.008
2315	75	2.9528	160	6.2992	55	2.165
2316	80	3.1496	170	6.6929	58	2.284
2317	85	3.3465	180	7.0866	60	2.362
2318	90	3.5433	190	7.4803	64	2.520
2319	95	3.7402	200	7.8740	67	2.638
*2320	100	3.9370	215	8.4646	73	2.874
*2321	105	4.1339	225	8.8583	77	3.032
*2322	110	4.3307	240	9.4488	80	3.150

*Obsolete—Shown for reference purposes only.

△Check for availability.

ROLLER BEARING SECTION

	Page
STEEL ROLLERS	82
AMERICAN ROLLER BEARINGS	

SCS, SC Medium Series	83
HCS Heavy Series	84
HC Heavy Series	85
ECS, EC Super Heavy Series	86
100, 200, 300 Series, Bronze Cage Type	87
5100, 5200, 5300 Bronze Cage Type	88
NB, NDB, ND Series Needle Bearings	89
NB-S, NDB-S, ND-S Needle Bearings	89
1200, 1300, 5200, 5300, 6200 Steel Cage Type	90

HYATT ROLLER BEARINGS

18000, 40000, 49000 Series	91
200, 300 Metric Series, Solid Races	92
C200, C300 Series—No Inner Races	93
HP-90000, Split Outer Series	94
S-90000, Solid Outer Series	94
90000 Series, Roller Assemblies	95
A1200TS, A1300TS Hy-Roll Series	96
A5200TS, A5300TS, A6200TS, Hy-Roll Series	97
70000 Series, Bronze End Ring Type	97
99200, 99300 Series Solid Roller Type	98

MCGILL ROLLER BEARINGS

SE (MO-MI) Series "Solidend" Type	99
"GR" Series, Guiderol Inch Type	100
"MR" Series, Cagerol Inch Type	101
"CF", "CF-S" Series Cam Followers	102
"CFH", "CFH-S" Series Cam Followers	102
"CYR", "CYR-S" Cam Yoke Rollers	103
"GR" Guiderol, Metric Type, Single and Double Row	104
RS (FR), RD (FRD) Series	105

MESSINGER BEARINGS

Messinger Types	106
"X" Type Roller Bearings	107
"Featherweight" Bearings	108

NORMA-HOFFMANN ROLLER BEARINGS

R, R-E, R-L, R-LL, R-RR Metric Type	109
RLS, RMS, RXLS Inch Type	110

	Page
ROLLWAY ROLLER BEARINGS	

D-200, D-300 Metric Type	111
B-200, B-300 Series (No Inner Race)	111
"A" Series, Split Outer Race Type	112
"PA" Series, Heavy Split Outer Race	112
Roller Assemblies Only	113
1200, 1300, 5200, 5300 Tru-Rol Steel Cage Type	114
Cylindrical Roller, Single Row Width	115
Cylindrical Roller, Double Row Width	116

SKF ROLLER BEARINGS

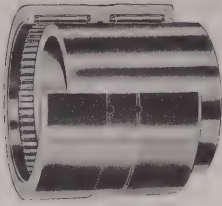
212, 213, 222, 223 Spherical Type	117
231, 232 Series Spherical Type	118
230 Extra-Extra Light Type	119
Vibrating Screen Bearings	119
200, 300 Series, Cylindrical Roller	120
NN-3000-K Series Cylindrical Roller Super Precision, Tapered Bore	120

TIMKEN TAPERED ROLLER BEARINGS

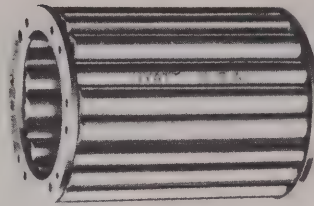
Timken Types Illustrated	121
Timken Tolerance Chart	122
Precision Tag Markings	123
Type TSF and TSSF, Flanged Cup Series	124
Types TNASWH and TNASWE	125
Type TS, Standard Single Row	126
Type TSS, Steep Angle, Single Row	142
Type TDO, Two Row, Double Cup	143
Type TDIS, Two Row, Steep Angle	148
Type TDIKE, Two Row, Slotted Double Cone	149
Type TDI, Two Row, Double Cone	149
Type TNA, Two Row, Double Cup	152
Type TNAS, Two Row, Steep Angle	153

TORRINGTON ROLLER BEARINGS

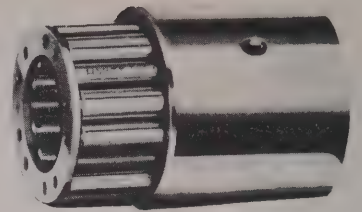
Needle Bearing Mounting Suggestions	154
B, M, GB, GM Series	155
BH, MH, GBH, GMH Series	156
J, MJ, JH, MJH Series	157
IR, IRA Inner Races	158
HD Series, Heavy Duty Type	159
HJ Series, Heavy Duty, Retainer Type	160
CR Series, Cam Followers	161
SBB Series, Ball Bushings	161
NBC, NCC Series, Aircraft Type	162
NBF, NBL, NBE, NBK Aircraft Series	163
22, 23 Series Spherical Roller Bearings	164
30, 31, 32 Series Spherical Roller Bearings	165

ROLLER BEARINGS

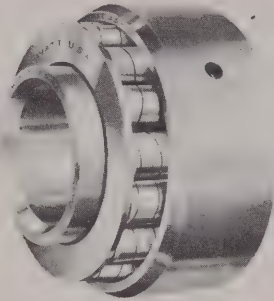
American Needle Bearings



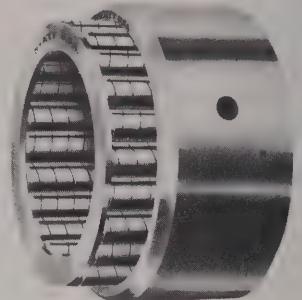
Hyatt Junior Solid Roller Assemblies



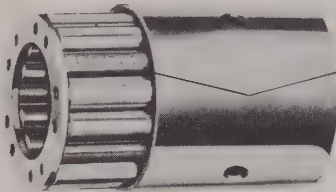
Hyatt Junior Solid Outer Race Series



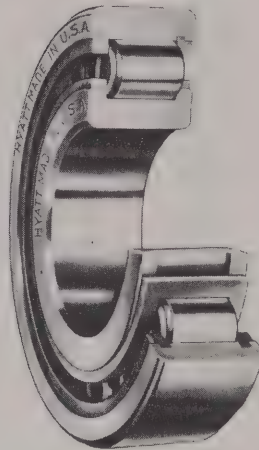
Hyatt Solid Race Metric Series



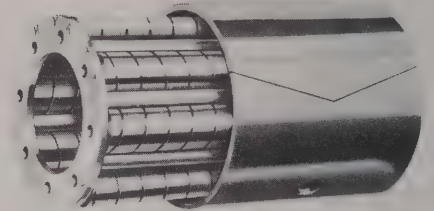
Hyatt C-200 and C-300 Series



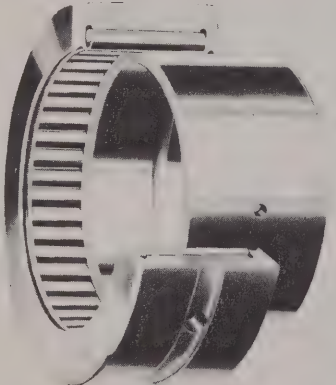
Hyatt Junior Split Outer Race



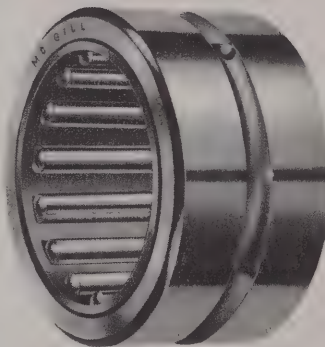
Hyatt Hy-Roll Series



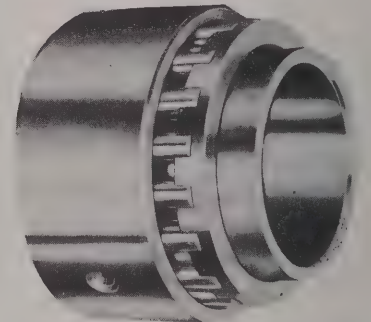
Hyatt Split Outer Race



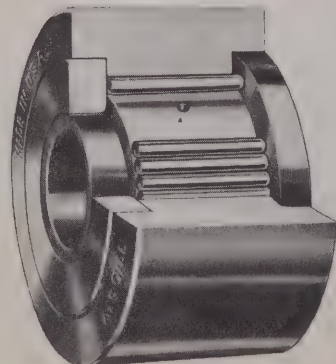
McGill Solidend



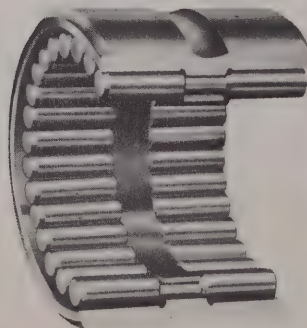
McGill Cagerol



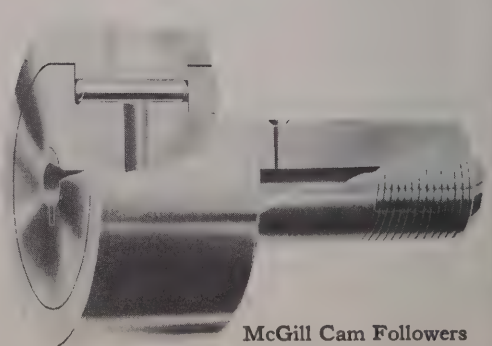
American Inch Dimension Series



McGill CYR Series



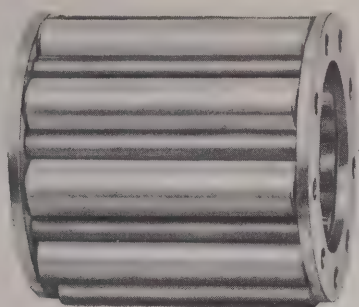
McGill Guiderol Series



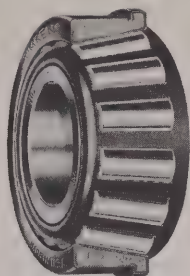
McGill Cam Followers

NEED HELP ON BEARINGS—CALL US

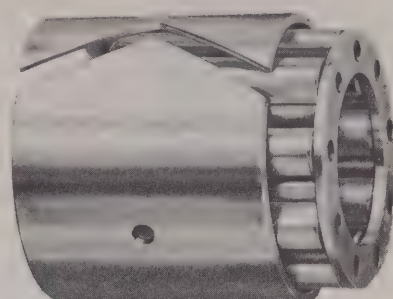
ROLLER BEARINGS



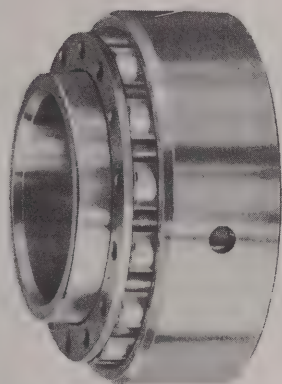
Rollway Roller Assemblies



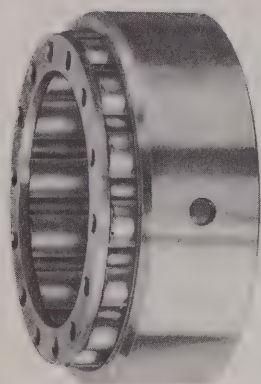
Timken TSF Series



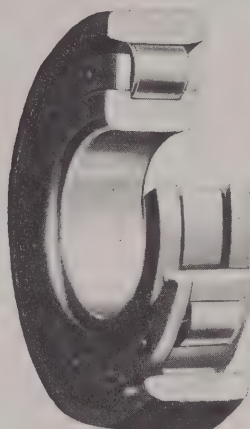
Rollway Type A Inch Series



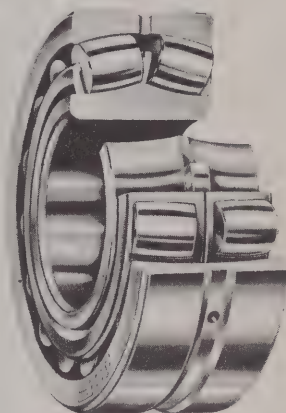
Rollway Type D Metric Series



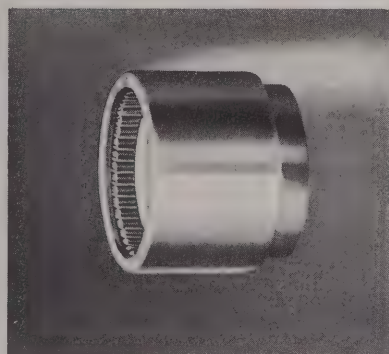
Rollway Type B Metric Series



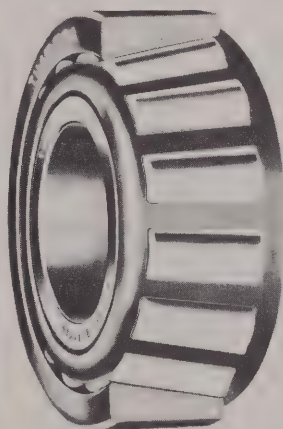
SKF Cylindrical



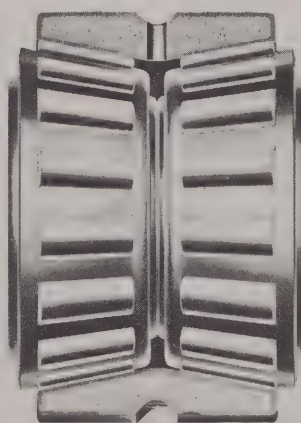
SKF Spherical



Torrington with Inner Races



Timken Standard TS Series



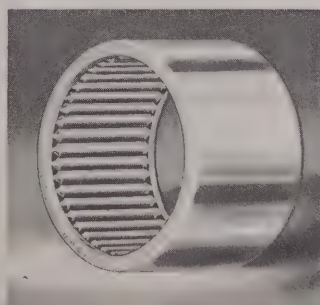
Timken Type TNA



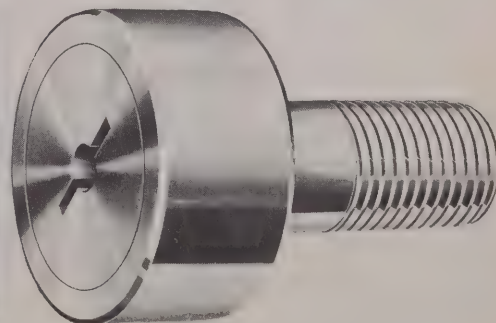
SKF Tapered Bore



Torrington Closed End Type



Torrington Needle Bearings



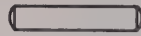
Torrington Cam Followers

NEED HELP ON BEARINGS—CALL US

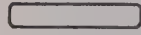


Needle rollers are made from high carbon, chrome steel and are hardened ground and lapped.

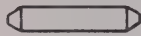
TYPE "NR" NEEDLE ROLLERS



spherical end—most widely used, provides the most economical type.



flat end—allows maximum effective contact length for any given raceway length.



conical end—used where lip retainment of the rollers to either housing or shaft is desired.

ROLLER TYPES

ROLLER SIZES LISTED BELOW, EXCEPT WHERE INDICATED, HAVE SPHERICAL ENDS

AFBMA Number	Part Number	Diameter +.0000 -.0002"	Length +.000 -.020"
0312L12	B-1348-Q	.0310	.298
0312L16	Q-8266	.0312	.120
0312L19	Q-8267	.0312	.160
0312L22	Q-8100	.0312	.190
0312L25	Q-8268	.0312	.220
0312L28	Q-8101	.0312	.250
0312L31	Q-8269	.0312	.280
0469L12	Q-8102	.0312	.310
0469L16	Q-8270	.0469	.120
0469L19	Q-8271	.0469	.160
0469L22	Q-8272	.0469	.190
0469L25	Q-8273	.0469	.220
0469L28	Q-8103	.0469	.250
0469L31	Q-8274	.0469	.280
0469L38	Q-8104	.0469	.310
0469L44	Q-8105	.0469	.380
0469L47	Q-8106	.0469	.440
0625L25	Q-8275	.0469	.470
0625L28	Q-8276	.0625	.250
0625L31	Q-8277	.0625	.280
0625L34	S-1414-Q	.0625	.310
0625L38	Q-8278	.0625	.340
0625L41	Q-8107	.0625	.380
0625L44	Q-8279	.0625	.410
0625L47	Q-8108	.0625	.440
0625L53	Q-8280	.0625	.470
0625L56	Q-1821	.0625	.500
0625L59	Q-8281	.0625	.530
0625L62	Q-8109	.0625	.560
0625L69	Q-8282	.0625	.590
0625L75	H-368-Q	.0625	.620
0625L81	Q-8283	.0625	.690
0625L88	Q-8284	.0625	.750
0781L25	L-197-Q	.0627	.370
0781L31	D-497-Q	.0627	.490
0781L38	H-220-Q	.0627	.620
0781L44	U-155-Q	.0627	.666
0781L56	W-1078-Q	.0771	.863
0781L62	G-422-Q	.0772	.955
0781L69	Q-8285	.0781	.250
0781L75	Q-8286	.0781	.310
0781L81	Q-8287	.0781	.380
0781L88	Q-8110	.0781	.440
0781L94	Q-8111	.0781	.500
0781L100	Q-8112	.0781	.560
0781L106	Q-8049	.0781	.620
0781L112	Q-8113	.0781	.690
0781L118	Q-8114	.0781	.750
0781L124	Q-8288	.0781	.810
0781L130	Q-8289	.0781	.880
0781L136	Q-7216	.0785	.640
0781L142	Q-10729	.0792	.396
0781L148	W-298-Q	.0901	.975
0781L154	Q-10317	.0937	.416
0781L160	*Q-11922	.09375	.400
0781L166	Q-8290	.0938	.380
0781L172	Q-8291	.0938	.440
0781L178	Q-8292	.0938	.500
0781L184	Q-8115	.0938	.560
0781L190	Q-8116	.0938	.620
0781L196	Q-8117	.0938	.690
0781L202	H-230-Q	.0938	.750
0781L208	Q-8036	.0938	.810
0781L214	Q-8037	.0938	.880
0781L220	Q-8293	.0938	.940
0781L226	Q-8294	.0938	1.000

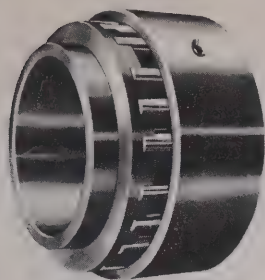
AFBMA Number	Part Number	Diameter +.0000 -.0002"	Length +.000 -.020"
1094L38	*Q-9506	.0939	.555
1094L44	H-209-Q	.0939	.687
1094L50	*C-613-Q	.0939	.696
1094L56	G-322-Q	.0939	.975
1094L62	S-521-Q	.0940	.494
1094L68	M-1021-Q	.0940	.540
1094L74	*S-635-Q	.0950	.675
1094L80	S-1074-Q	.0957	.625
1094L86	Q-9259	.1012	.410
1094L92	*Q-11264	.1012	.532
1094L98	U-327-Q	.1012	.572
1094L104	*Q-10113	.1012	.661
1094L110	M-548-Q	.1040	.395
1094L116	M-1015-Q	.1040	.509
1094L122	Q-8295	.1094	.380
1094L128	Q-8296	.1094	.440
1094L134	Q-8297	.1094	.500
1094L140	Q-8298	.1094	.560
1094L146	Q-8118	.1094	.620
1094L152	Q-8299	.1094	.690
1094L158	Q-8119	.1094	.750
1094L164	Q-8300	.1094	.810
1094L170	Q-8120	.1094	.880
1094L176	Q-8301	.1094	.940
1094L182	Q-8121	.1094	1.000
1094L188	Q-8302	.1094	1.060
1094L194	Q-8303	.1094	1.120
1094L200	M-942-Q	.1237	.806
1094L206	*Q-10258	.1237	.849
1094L212	Q-6283	.1244	.900
125L5	S-520-Q	.1250	.385
125L11	M-484-Q	.1250	.500
125L17	C-1990-Q	.1250	.520
125L23	Q-8304	.1250	.560
125L29	A-544-Q	.1250	.615
125L35	Q-8371	.1250	.620
125L41	*S-342-Q	.1250	.675
125L47	Q-8305	.1250	.690
125L53	M-939-Q	.1250	.707
125L59	*B-1592-Q	.1250	.730
125L65	C-407-Q	.1250	.750
125L71	C-403-Q	.1250	.810
125L77	B-1771-Q	.1250	.817
125L83	*B-1595-Q	.1250	.865
125L89	F-351-Q	.1250	.875
125L95	Q-8122	.1250	.880
125L101	*S-456-Q	.1250	.925
125L107	C-1086-Q	.1250	.938
125L113	Q-8306	.1250	.940
125L119	Q-8923	.1250	.962
125L125	B-1316-Q	.1250	1.000
125L131	Q-8307	.1250	1.060
125L137	Q-8123	.1250	1.120
125L143	B-1607-Q	.1250	1.125
125L149	Q-8308	.1250	1.190
125L155	C-437-Q	.1250	1.250
125L161	Q-8309	.1250	1.310
125L167	Q-8310	.1250	1.380
125L173	M-560-Q	.1262	.334
125L179	M-512-Q	.1262	.520
1562L5	Q-8311	.1562	.500
1562L11	Q-8312	.1562	.560
1562L17	Q-8254	.1562	.620
1562L23	Q-8314	.1562	.750
1562L29	Q-8315	.1562	.880
1562L35	Q-8124	.1562	1.000

AFBMA Number	Part Number	Diameter +.0000 -.0002"	Length +.000 -.020"
1562L120	Q-8316	.1562	1.120
1562L125	E-151-Q	.1562	1.250
1562L130	Q-8317	.1562	1.380
1562L1500	R-315-Q	.1562	1.500
1562L1620	Q-8318	.1562	1.620
1875L5	C-1960-Q	.1582	.562
1875L6	S-443-Q	.1582	.740
1875L7	S-444-Q	.1582	1.014
1875L8	Q-8319	.1875	.500
1875L9	C-1110-Q	.1875	.527
1875L10	C-954-Q	.1875	.620
1875L11	G-457-Q	.1875	.745
1875L12	Q-8320	.1875	.750
1875L13	Q-8321	.1875	.880
1875L14	C-436-Q	.1875	1.000
1875L15	Q-8322	.1875	1.120
1875L16	C-678-Q	.1875	1.187
1875L17	G-529-Q	.1875	1.250
1875L18	C-672-Q	.1875	1.375
1875L19	Q-8323	.1875	1.380
1875L20	P-377-Q	.1875	1.500
1875L21	Q-8324	.1875	1.620
1875L22	C-951-Q	.1875	1.750
1875L23	†L-219-Q	.2163	.375
1875L24	†C-417-Q	.2182	.538
1875L25	†C-2781-Q	.2182	.750
1875L26	W-1518-Q	.2182	.752
1875L27	Q-8325	.2188	.500
1875L28	Q-8326	.2188	.620
1875L29	Q-8327	.2188	.750
1875L30	Q-8328	.2188	.880
1875L31	Q-8125	.2188	1.000
1875L32	Q-8329	.2188	1.120
1875L33	Q-8126	.2188	1.250
1875L34	Q-8330	.2188	1.380
1875L35	Q-8127	.2188	1.500
1875L36	Q-8331	.2188	1.620
1875L37	Q-8332	.2188	1.750
1875L38	Q-8333	.2188	1.880
1875L39	Q-8334	.2188	2.000
1875L40	W-1590-Q	.2325	1.000
1875L41	C-1314-Q	.2500	.500
1875L42	Q-5830	.2500	.620
1875L43	A-2370-Q	.2500	.750
1875L44	Q-8335	.2500	.880
1875L45	C-435-Q	.2500	1.000
1875L46	Q-8336	.2500	1.120
1875L47	Q-197-Q	.2500	1.250
1875L48	Q-8337	.2500	1.380
1875L49	F-236-Q	.2500	1.500
1875L50	Q-8338	.2500	1.620
1875L51	Q-434-Q	.2500	1.750
1875L52	Q-8247	.2500	1.880
1875L53	W-430-Q	.2500	2.000
1875L54	I-397-Q	.2500	2.120
1875L55	G-613-Q	.2500	2.250
1875L56	Q-8340	.2500	2.500
1875L57	Q-8341	.2500	2.750
1875L58	C-2678-Q	.2501	.398
1875L59	†Q-8178	.3015	.437
1875L60	†Q-9145	.3125	.434
1875L61	†S-1311-Q	.3125	.500
1875L62	†Q-9146	.3125	.559
1875L63	†Q-5990	.3125	.687
1875L64	†W-585-Q	.3126	.623

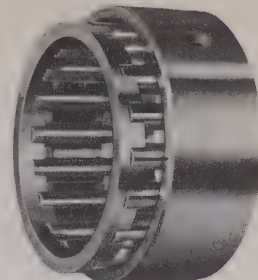
*Conical end rollers—special tolerances apply.

†Flat end rollers—special tolerance apply.

AMERICAN ROLLER BEARINGS MEDIUM DUTY SCS AND SC SERIES



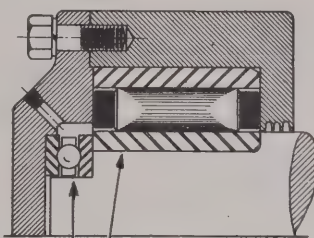
SCS SERIES With
Inner and Outer Races



SC SERIES
With Outer Races Only

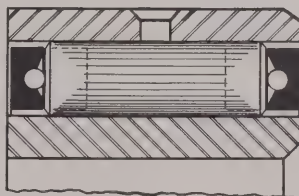
Controlling End Thrust

Since American Roller Bearings are designed to handle radial loads only, it is necessary to provide some means to control any thrust loads present in the design.



Roller Bearing with Inner
and Outer Races
Ball Thrust Bearing

END RING CONSTRUCTION



The above bearing cross section view illustrates how all roller assemblies are furnished with hardened steel balls at the ends of all rollers. The ball is pressed in holes expressly drilled for this purpose at the bottom of each roller pocket. The hole is drilled slightly deeper than one half of the ball diameter permitting the material around the ball to be peened, thus permanently retaining the ball. The use of steel balls in this manner not only prevents wear in the pockets of the cage end rings but results in a hard point contact in place of surface contact between the ends of the rollers and the bearing end rings.

Bearing No.	Bearing I. D.	Bearing O. D.	Length	Inner Race O. D.	Roll Dia.
SCS-100	1	2	1	1 1/4	1/4
SCS-101	1	2	1 1/2	1 1/4	1/4
SCS-102	1	2	2	1 1/4	1/4
SCS-103	1 3/16	2 1/8	1	1 3/8	1/4
SCS-104	1 3/16	2 1/8	1 1/2	1 3/8	1/4
SCS-105	1 3/16	2 1/8	2	1 3/8	1/4
SCS-106	1 1/4	2 3/8	1	1 1/2	1/4
SCS-107	1 1/4	2 3/8	1 1/2	1 1/2	1/4
SCS-108	1 1/4	2 3/8	2	1 1/2	1/4
SCS-109	1 1/4	2 3/8	1	1 1 1/2	1/4
SCS-110	1 7/16	2 1/2	1 1/2	1 11/16	1/4
SCS-111	1 7/16	2 1/2	2	1 11/16	1/4
SCS-112	1 1/2	2 5/8	1	1 15/16	1/4
SCS-113	1 1/2	2 5/8	1 1/2	1 15/16	1/4
SCS-114	1 1/2	2 5/8	2	1 15/16	1/4
SCS-115	1 3/4	3 1/8	1	2 1/8	5/16
SCS-116	1 3/4	3 1/8	1 1/2	2 1/8	5/16
SCS-117	1 3/4	3 1/8	2	2 1/8	5/16
SCS-118	1 11/16	3 1/4	1	2 1/4	5/16
SCS-119	1 11/16	3 1/4	1 1/2	2 1/4	5/16
SCS-120	1 15/16	3 1/4	2	2 1/4	5/16
SCS-121	1 15/16	3 1/4	2 1/2	2 1/4	5/16
SCS-122	2	3 3/8	1	2 3/8	5/16
SCS-123	2	3 3/8	1 1/2	2 3/8	5/16
SCS-124	2	3 3/8	2	2 3/8	5/16
SCS-125	2	3 3/8	2 1/2	2 3/8	5/16
SCS-126	2 1/4	3 3/4	1	2 11/16	5/16
SCS-127	2 1/4	3 3/4	1 1/2	2 11/16	5/16
SCS-128	2 1/4	3 3/4	2	2 11/16	5/16
SCS-129	2 1/4	3 3/4	2 1/2	2 11/16	5/16
SCS-130	2 1/6	3 7/8	1 1/2	2 15/16	5/16
SCS-131	2 1/6	3 7/8	2	2 15/16	5/16
SCS-132	2 1/6	3 7/8	2 1/2	2 15/16	5/16
SCS-133	2 1/6	3 7/8	3	2 15/16	5/16
SCS-134	2 1/2	4	1 1/2	2 15/16	5/16
SCS-135	2 1/2	4	2	2 15/16	5/16
SCS-136	2 1/2	4	2 1/2	2 15/16	5/16
SCS-137	2 1/2	4	3	2 15/16	5/16
SCS-138	2 3/4	4 1/2	1 1/2	3 1/4	5/8
SCS-139	2 3/4	4 1/2	2	3 1/4	5/8
SCS-140	2 3/4	4 1/2	2 1/2	3 1/4	5/8
SCS-141	2 3/4	4 1/2	3	3 1/4	5/8
SCS-142	3	4 3/4	1 1/2	3 1/2	5/8
SCS-143	3	4 3/4	2	3 1/2	5/8
SCS-144	3	4 3/4	2 1/2	3 1/2	5/8
SCS-145	3	4 3/4	3	3 1/2	5/8
SCS-146	3 1/4	5	1 1/2	3 3/4	5/8
SCS-147	3 1/4	5	2	3 3/4	5/8
SCS-148	3 1/4	5	2 1/2	3 3/4	5/8
SCS-149	3 1/4	5	3	3 3/4	5/8
SCS-150	3 1/4	5	3 1/2	3 3/4	5/8
SCS-151	3 1/2	5 1/4	1 1/2	4	5/8
SCS-152	3 1/2	5 1/4	2	4	5/8
SCS-153	3 1/2	5 1/4	2 1/2	4	5/8
SCS-154	3 1/2	5 1/4	3	4	5/8
SCS-155	3 1/2	5 1/4	3 1/2	4	5/8
SCS-156	3 1/2	5 1/4	4	4	5/8
SCS-157	3 3/4	5 3/4	2	4 1/4	5/8
SCS-158	3 3/4	5 3/4	2 1/2	4 1/4	5/8
SCS-159	3 3/4	5 3/4	3	4 1/4	5/8
SCS-160	3 3/4	5 3/4	3 1/2	4 1/4	5/8
SCS-161	3 3/4	5 3/4	4	4 1/4	5/8
SCS-162	4	6	2	4 1/2	5/8
SCS-163	4	6	2 1/2	4 1/2	5/8
SCS-164	4	6	3	4 1/2	5/8
SCS-165	4	6	3 1/2	4 1/2	5/8
SCS-166	4	6	4	4 1/2	5/8

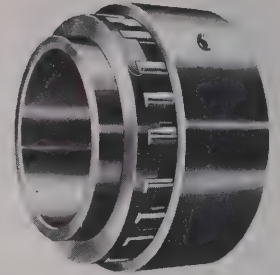
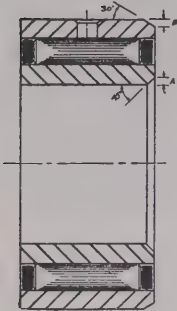
Bearing No.	Bearing S. D.	Bearing O. D.	Length	Roll Dia.
SC-100	1	1 3/4	1	1/4
SC-101	1	1 3/4	1 1/2	1/4
SC-102	1	1 3/4	2	1/4
SC-103	1 3/16	1 11/16	1	1/4
SC-104	1 3/16	1 11/16	1 1/2	1/4
SC-105	1 3/16	1 11/16	2	1/4
SC-106	1 1/4	2	1	1/4
SC-107	1 1/4	2	1 1/2	1/4
SC-108	1 1/4	2	2	1/4
SC-109	1 1/4	2 1/4	1	1/4
SC-110	1 7/16	2 1/4	1 1/2	1/4
SC-111	1 7/16	2 1/4	2	1/4
SC-112	1 1/2	2 5/16	1	1/4
SC-113	1 1/2	2 5/16	1 1/2	1/4
SC-114	1 1/2	2 5/16	2	1/4
SC-115	1 3/4	2 3/4	1	5/16
SC-116	1 3/4	2 3/4	1 1/2	5/16
SC-117	1 3/4	2 3/4	2	5/16
SC-118	1 11/16	2 15/16	1	5/16
SC-119	1 11/16	2 15/16	1 1/2	5/16
SC-120	1 15/16	2 15/16	2	5/16
SC-121	1 15/16	2 15/16	2 1/2	5/16
SC-122	2	3	1	5/16
SC-123	2	3	1 1/2	5/16
SC-124	2	3	2	5/16
SC-125	2	3	2 1/2	5/16
SC-126	2 1/4	3 3/16	1	5/16
SC-127	2 1/4	3 3/16	1 1/2	5/16
SC-128	2 1/4	3 3/16	2	5/16
SC-129	2 1/4	3 3/16	2 1/2	5/16
SC-130	2 1/6	3 1/2	1 1/2	5/16
SC-131	2 1/6	3 1/2	2	5/16
SC-132	2 1/6	3 1/2	2 1/2	5/16
SC-133	2 1/6	3 1/2	3	5/16
SC-134	2 1/2	3 3/16	1 1/2	5/16
SC-135	2 1/2	3 3/16	2	5/16
SC-136	2 1/2	3 3/16	2 1/2	5/16
SC-137	2 1/2	3 3/16	3	5/16
SC-138	2 3/4	4	1 1/2	5/8
SC-139	2 3/4	4	2	5/8
SC-140	2 3/4	4	2 1/2	5/8
SC-141	2 3/4	4	3	5/8
SC-142	3	4 1/4	1 1/2	5/8
SC-143	3	4 1/4	2	5/8
SC-144	3	4 1/4	2 1/2	5/8
SC-145	3	4 1/4	3	5/8
SC-146	3 1/4	4 1/2	1 1/2	5/8
SC-147	3 1/4	4 1/2	2	5/8
SC-148	3 1/4	4 1/2	2 1/2	5/8
SC-149	3 1/4	4 1/2	3	5/8
SC-150	3 1/4	4 1/2	3 1/2	5/8
SC-151	3 1/2	4 3/4	1 1/2	5/8
SC-152	3 1/2	4 3/4	2	5/8
SC-153	3 1/2	4 3/4	2 1/2	5/8
SC-154	3 1/2	4 3/4	3	5/8
SC-155	3 1/2	4 3/4	3 1/2	5/8
SC-156	3 1/2	4 3/4	4	5/8
SC-157	3 3/4	5 1/4	2	5/8
SC-158	3 3/4	5 1/4	2 1/2	5/8
SC-159	3 3/4	5 1/4	3	5/8
SC-160	3 3/4	5 1/4	3 1/2	5/8
SC-161	3 3/4	5 1/4	4	5/8
SC-162	4	5 1/2	2	5/8
SC-163	4	5 1/2	2 1/2	5/8
SC-164	4	5 1/2	3	5/8
SC-165	4	5 1/2	3 1/2	5/8
SC-166	4	5 1/2	4	5/8

Oil holes are located in the center of the length of the outer races, but will be located in the inner race for lubricator through shaft, when specified.

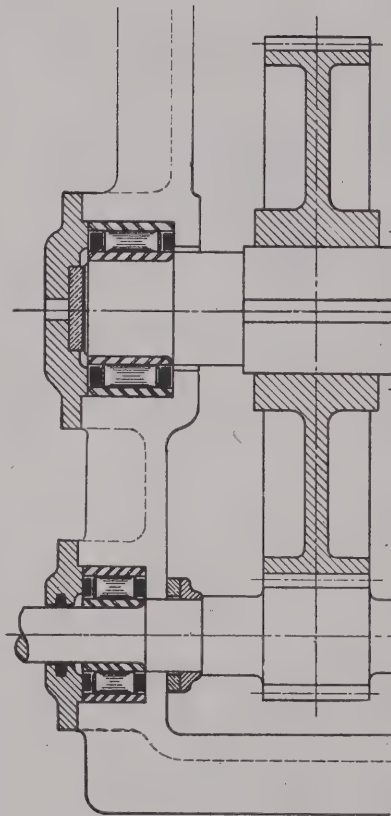
AMERICAN ROLLER BEARINGS HEAVY DUTY

HCS SERIES

with inner and outer races



Bearing No.	Bearing I. D.	Bearing O. D.	Lgth.	Inner Race O. D.	Roll Dia.
HCS-200	1	2 5/8	1 1/2	1 1/2	3/8
HCS-201	1	2 5/8	2	1 1/2	3/8
HCS-202	1	2 5/8	2 1/2	1 1/2	3/8
HCS-203	1 1/4	2 7/8	1 1/2	1 3/4	3/8
HCS-204	1 1/4	2 7/8	2	1 3/4	3/8
HCS-205	1 1/4	2 7/8	2 1/2	1 3/4	3/8
HCS-206	1 7/16	3 1/2	1 1/2	2 1/8	7/16
HCS-207	1 7/16	3 1/2	2	2 1/8	7/16
HCS-208	1 7/16	3 1/2	2 1/2	2 1/8	7/16
HCS-209	1 1/2	3 1/2	1 1/2	2 1/8	7/16
HCS-210	1 1/2	3 1/2	2	2 1/8	7/16
HCS-211	1 1/2	3 1/2	2 1/2	2 1/8	7/16
HCS-212	1 3/4	3 3/4	1 1/2	2 3/8	7/16
HCS-213	1 3/4	3 3/4	2	2 3/8	7/16
HCS-214	1 3/4	3 3/4	2 1/2	2 3/8	7/16
HCS-215	1 15/16	4 1/8	1 1/2	2 5/8	7/16
HCS-216	1 15/16	4 1/8	2	2 5/8	7/16
HCS-217	1 15/16	4 1/8	2 1/2	2 5/8	7/16
HCS-218	1 15/16	4 1/8	3	2 5/8	7/16
HCS-219	2	4 1/8	1 1/2	2 5/8	7/16
HCS-220	2	4 1/8	2	2 5/8	7/16
HCS-221	2	4 1/8	2 1/2	2 5/8	7/16
HCS-222	2	4 1/8	3	2 5/8	7/16
HCS-223	2 1/4	4 3/8	1 1/2	2 7/8	7/16
HCS-224	2 1/4	4 3/8	2	2 7/8	7/16
HCS-225	2 1/4	4 3/8	2 1/2	2 7/8	7/16
HCS-226	2 1/4	4 3/8	3	2 7/8	7/16
HCS-227	2 1/6	4 3/4	2	3 1/8	1 1/2
HCS-228	2 1/6	4 3/4	2 1/2	3 1/8	1 1/2
HCS-229	2 1/6	4 3/4	3	3 1/8	1 1/2
HCS-230	2 1/6	4 3/4	3 1/2	3 1/8	1 1/2
HCS-231	2 1/2	4 3/4	2	3 1/8	1 1/2
HCS-232	2 1/2	4 3/4	2 1/2	3 1/8	1 1/2
HCS-233	2 1/2	4 3/4	3	3 1/8	1 1/2
HCS-234	2 1/2	4 3/4	3 1/2	3 1/8	1 1/2
HCS-235	2 3/4	5	2	3 3/8	1 1/2
HCS-236	2 3/4	5	2 1/2	3 3/8	1 1/2
HCS-237	2 3/4	5	3	3 3/8	1 1/2
HCS-238	2 3/4	5	3 1/2	3 3/8	1 1/2
HCS-239	2 15/16	5 1/8	2	3 3/4	1 1/2
HCS-240	2 15/16	5 1/8	2 1/2	3 3/4	1 1/2
HCS-241	2 15/16	5 1/8	3	3 3/4	1 1/2
HCS-242	2 15/16	5 1/8	3 1/2	3 3/4	1 1/2
HCS-243	2 15/16	5 1/8	4	3 3/4	1 1/2
HCS-244	3	5 1/8	2	3 3/4	1 1/2
HCS-245	3	5 1/8	2 1/2	3 3/4	1 1/2
HCS-246	3	5 1/8	3	3 3/4	1 1/2
HCS-247	3	5 1/8	3 1/2	3 3/4	1 1/2
HCS-248	3	5 1/8	4	3 3/4	1 1/2
HCS-249	3 1/4	5 3/4	2	4	1 1/2
HCS-250	3 1/4	5 3/4	2 1/2	4	1 1/2
HCS-251	3 1/4	5 3/4	3	4	1 1/2
HCS-252	3 1/4	5 3/4	4	4	1 1/2
HCS-253	3 1/6	6 1/8	2	4 1/4	9/16
HCS-254	3 1/6	6 1/8	2 1/2	4 1/4	9/16
HCS-255	3 7/16	6 1/8	3	4 1/4	9/16
HCS-256	3 7/16	6 1/8	4	4 1/4	9/16
HCS-257	3 1/2	6 1/8	2	4 1/4	9/16
HCS-258	3 1/2	6 1/8	2 1/2	4 1/4	9/16
HCS-259	3 1/2	6 1/8	3	4 1/4	9/16
HCS-260	3 1/2	6 1/8	4	4 1/4	9/16
HCS-261	3 3/4	6 3/8	2	4 1/2	9/16
HCS-262	3 3/4	6 3/8	2 1/2	4 1/2	9/16
HCS-263	3 3/4	6 3/8	3	4 1/2	9/16
HCS-264	3 3/4	6 3/8	4	4 1/2	9/16
HCS-265	3 15/16	6 3/4	2	4 3/4	5/8
HCS-266	3 15/16	6 3/4	2 1/2	4 3/4	5/8
HCS-267	3 15/16	6 3/4	3	4 3/4	5/8
HCS-268	3 15/16	6 3/4	4	4 3/4	5/8

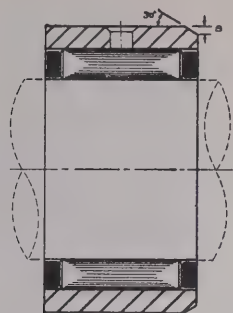


Illustrating use of Bearings with Inner and Outer Races in a gear reduction unit.

Bearing No.	Bearing I. D.	Bearing O. D.	Lgth.	Inner Race O. D.	Roll Dia.
HCS-269	4	6 3/4	2	4 3/4	5/8
HCS-270	4	6 3/4	2 1/2	4 3/4	5/8
HCS-271	4	6 3/4	3	4 3/4	5/8
HCS-272	4	6 3/4	4	4 3/4	5/8
HCS-273	4 1/4	7	2 1/2	5	5/8
HCS-274	4 1/4	7	3	5	5/8
HCS-275	4 1/4	7	4	5	5/8
HCS-276	4 1/4	7	5	5	5/8
HCS-277	4 1/4	7 1/4	2 1/2	5 1/4	5/8
HCS-278	4 1/4	7 1/4	3	5 1/4	5/8
HCS-279	4 1/4	7 1/4	4	5 1/4	5/8
HCS-280	4 1/4	7 1/4	5	5 1/4	5/8
HCS-281	4 1/2	7 1/2	2 1/2	5 1/2	5/8
HCS-282	4 1/2	7 1/2	3	5 1/2	5/8
HCS-283	4 1/2	7 1/2	4	5 1/2	5/8
HCS-284	4 1/2	7 1/2	5	5 1/2	5/8
HCS-285	4 3/4	7 1/2	2 1/2	5 1/2	5/8
HCS-286	4 3/4	7 1/2	3	5 1/2	5/8
HCS-287	4 3/4	7 1/2	4	5 1/2	5/8
HCS-288	4 3/4	7 1/2	5	5 1/2	5/8
HCS-289	4 15/16	8 1/4	3	5 7/8	3/4
HCS-290	4 15/16	8 1/4	4	5 7/8	3/4
HCS-291	4 15/16	8 1/4	5	5 7/8	3/4
HCS-292	4 15/16	8 1/4	6	5 7/8	3/4
*HCS-293	4 15/16	8 1/4	8	5 7/8	3/4
HCS-294	5	8 1/4	3	5 7/8	3/4
HCS-295	5	8 1/4	4	5 7/8	3/4
HCS-296	5	8 1/4	5	5 7/8	3/4
HCS-297	5	8 1/4	6	5 7/8	3/4
*HCS-298	5	8 1/4	8	5 7/8	3/4
HCS-299	5 1/4	8 1/2	3	6 1/8	3/4
HCS-300	5 1/4	8 1/2	4	6 1/8	3/4
HCS-301	5 1/4	8 1/2	5	6 1/8	3/4
HCS-302	5 1/4	8 1/2	6	6 1/8	3/4
*HCS-303	5 1/4	8 1/2	8	6 1/8	3/4
HCS-304	5 1/2	8 3/4	3	6 3/8	3/4
HCS-305	5 1/2	8 3/4	4	6 3/8	3/4
HCS-306	5 1/2	8 3/4	5	6 3/8	3/4
HCS-307	5 1/2	8 3/4	6	6 3/8	3/4
*HCS-308	5 1/2	8 3/4	8	6 3/8	3/4
HCS-309	5 3/4	9	3	6 5/8	3/4
HCS-310	5 3/4	9	4	6 5/8	3/4
HCS-311	5 3/4	9	5	6 5/8	3/4
HCS-312	5 3/4	9	6	6 5/8	3/4
*HCS-313	5 3/4	9	8	6 5/8	3/4
HCS-314	6	9 1/2	3	7	3/4
HCS-315	6	9 1/2	4	7	3/4
HCS-316	6	9 1/2	5	7	3/4
HCS-317	6	9 1/2	6	7	3/4
*HCS-318	6	9 1/2	8	7	3/4
HCS-319	6	10	4	7	1
HCS-320	6	10	5	7	1
HCS-321	6	10	6	7	1
*HCS-322	6	10	8	7	1
HCS-323	6 1/2	10 1/2	4	7 1/2	1
HCS-324	6 1/2	10 1/2	5	7 1/2	1
HCS-325	6 1/2	10 1/2	6	7 1/2	1
*HCS-326	6 1/2	10 1/2	8	7 1/2	1
HCS-327	7	11	4	8	1
HCS-328	7	11	5	8	1
HCS-329	7	11	6	8	1
*HCS-330	7	11	8	8	1
HCS-331	7 1/2	11 1/2	4	8 1/2	1
HCS-332	7 1/2	11 1/2	5	8 1/2	1
HCS-333	7 1/2	11 1/2	6	8 1/2	1
*HCS-334	7 1/2	11 1/2	8	8 1/2	1
HCS-335	8	12	4	9	1
HCS-336	8	12	5	9	1
HCS-337	8	12	6	9	1
*HCS-338	8	12	8	9	1

*Indicates bearing of the double cage type construction. Oil holes are located in the center of the length of the outer races, but will be located in the inner race for lubrication introduced through shaft, when specified. When specified, inner and outer races will be slotted for doweling purposes.

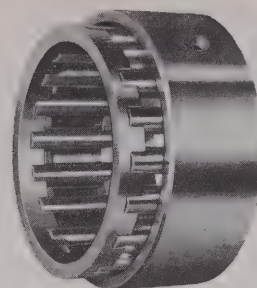
NEED HELP ON BEARINGS—CALL US



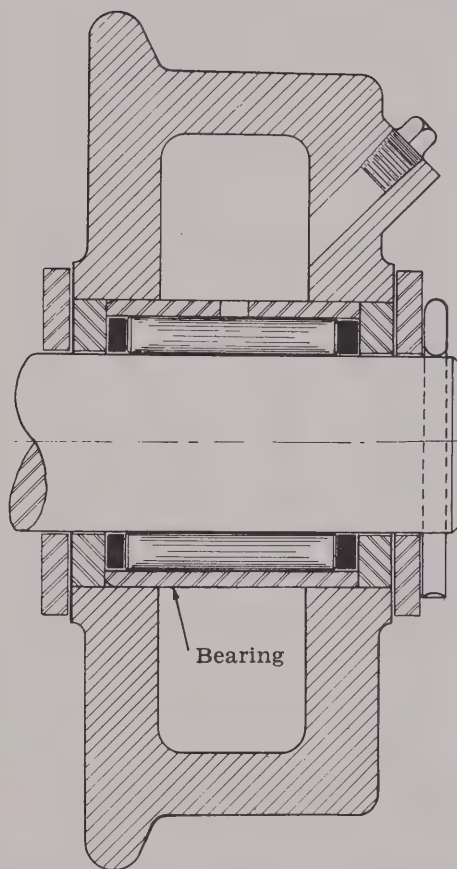
AMERICAN ROLLER BEARINGS HEAVY DUTY

HC SERIES

Outer Race and Roller Assembly only



Bearing No.	Bearing S. D.	Bearing O. D.	Length	Roll Dia.
HC-200	1	2 1/8	1 1/2	3/8
HC-201	1	2 1/8	2	3/8
HC-202	1	2 1/8	2 1/2	3/8
HC-203	1 1/4	2 3/8	1 1/2	3/8
HC-204	1 1/4	2 3/8	2	3/8
HC-205	1 1/4	2 3/8	2 1/2	3/8
HC-206	1 1/16	2 7/8	1 1/2	7/16
HC-207	1 1/16	2 7/8	2	7/16
HC-208	1 1/16	2 7/8	2 1/2	7/16
HC-209	1 1/2	2 7/8	1 1/2	7/16
HC-210	1 1/2	2 7/8	2	7/16
HC-211	1 1/2	2 7/8	2 1/2	7/16
HC-212	1 3/4	3 1/8	1 1/2	7/16
HC-213	1 3/4	3 1/8	2	7/16
HC-214	1 3/4	3 1/8	2 1/2	7/16
HC-215	1 15/16	3 1/2	1 1/2	7/16
HC-216	1 15/16	3 1/2	2	7/16
HC-217	1 15/16	3 1/2	2 1/2	7/16
HC-218	1 15/16	3 1/2	3	7/16
HC-219	2	3 1/2	1 1/2	7/16
HC-220	2	3 1/2	2	7/16
HC-221	2	3 1/2	2 1/2	7/16
HC-222	2	3 1/2	3	7/16
HC-223	2 1/4	3 3/4	1 1/2	7/16
HC-224	2 1/4	3 3/4	2	7/16
HC-225	2 1/4	3 3/4	2 1/2	7/16
HC-226	2 1/4	3 3/4	3	7/16
HC-227	2 1/16	4 1/8	2	1/2
HC-228	2 1/16	4 1/8	2 1/2	1/2
HC-229	2 1/16	4 1/8	3	1/2
HC-230	2 1/16	4 1/8	3 1/2	1/2
HC-231	2 1/2	4 1/8	1 1/2	1/2
HC-232	2 1/2	4 1/8	2 1/2	1/2
HC-233	2 1/2	4 1/8	3	1/2
HC-234	2 1/2	4 1/8	3 1/2	1/2
HC-235	2 3/4	4 3/8	2	1/2
HC-236	2 3/4	4 3/8	2 1/2	1/2
HC-237	2 3/4	4 3/8	3	1/2
HC-238	2 3/4	4 3/8	3 1/2	1/2
HC-239	2 15/16	4 3/4	2	1/2
HC-240	2 15/16	4 3/4	2 1/2	1/2
HC-241	2 15/16	4 3/4	3	1/2
HC-242	2 15/16	4 3/4	3 1/2	1/2
HC-243	2 15/16	4 3/4	4	1/2
HC-244	3	4 3/4	2	1/2
HC-245	3	4 3/4	2 1/2	1/2
HC-246	3	4 3/4	3	1/2
HC-247	3	4 3/4	3 1/2	1/2
HC-248	3	4 3/4	4	1/2
HC-249	3 1/4	5	2	1/2
HC-250	3 1/4	5	2 1/2	1/2
HC-251	3 1/4	5	3	1/2
HC-252	3 1/4	5	4	1/2
HC-253	3 7/16	5 3/8	2	1/2
HC-254	3 7/16	5 3/8	2 1/2	1/2
HC-255	3 7/16	5 3/8	3	1/2
HC-256	3 7/16	5 3/8	4	1/2
HC-257	3 1/2	5 3/8	2	1/2
HC-258	3 1/2	5 3/8	2 1/2	1/2
HC-259	3 1/2	5 3/8	3	1/2
HC-260	3 1/2	5 3/8	4	1/2
HC-261	3 3/4	5 5/8	2	1/2
HC-262	3 3/4	5 5/8	2 1/2	1/2
HC-263	3 3/4	5 5/8	3	1/2
HC-264	3 3/4	5 5/8	4	1/2
HC-265	3 15/16	6	2	5/8
HC-266	3 15/16	6	2 1/2	5/8
HC-267	3 15/16	6	3	5/8
HC-268	3 15/16	6	4	5/8



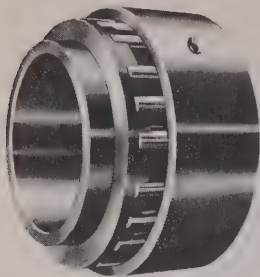
Roller Bearing with Outer Race Only
Used on Conveyor Wheel

BEARINGS OF LARGER SIZES
WITH COMPARATIVE CROSS
SECTIONS CAN BE FURNISHED
ON APPLICATION.

Bearing No.	Bearing S. D.	Bearing O. D.	Length	Roll Dia.
HC-269	4	6	2	5/8
HC-270	4	6	2 1/2	5/8
HC-271	4	6	3	5/8
HC-272	4	6	4	5/8
HC-273	4 1/4	6 1/4	2 1/2	5/8
HC-274	4 1/4	6 1/4	3	5/8
HC-275	4 1/4	6 1/4	4	5/8
HC-276	4 1/4	6 1/4	5	5/8
HC-277	4 1/16	6 1/2	2 1/2	5/8
HC-278	4 1/16	6 1/2	3	5/8
HC-279	4 1/16	6 1/2	4	5/8
HC-280	4 1/16	6 1/2	5	5/8
HC-281	4 1/2	6 1/2	2 1/2	5/8
HC-282	4 1/2	6 1/2	3	5/8
HC-283	4 1/2	6 1/2	4	5/8
HC-284	4 1/2	6 1/2	5	5/8
HC-285	4 3/4	6 3/4	2 1/2	5/8
HC-286	4 3/4	6 3/4	3	5/8
HC-287	4 3/4	6 3/4	4	5/8
HC-288	4 3/4	6 3/4	5	5/8
HC-289	4 15/16	7 3/8	3	3/4
HC-290	4 15/16	7 3/8	4	3/4
HC-291	4 15/16	7 3/8	5	3/4
HC-292	4 15/16	7 3/8	6	3/4
*HC-293	4 15/16	7 3/8	8	3/4
HC-294	5	7 3/8	3	3/4
HC-295	5	7 3/8	4	3/4
HC-296	5	7 3/8	5	3/4
HC-297	5	7 3/8	6	3/4
*HC-298	5	7 3/8	8	3/4
HC-299	5 1/4	7 5/8	3	3/4
HC-300	5 1/4	7 5/8	4	3/4
HC-301	5 1/4	7 5/8	5	3/4
HC-302	5 1/4	7 5/8	6	3/4
*HC-303	5 1/4	7 5/8	8	3/4
HC-304	5 1/2	7 7/8	3	3/4
HC-305	5 1/2	7 7/8	4	3/4
HC-306	5 1/2	7 7/8	5	3/4
HC-307	5 1/2	7 7/8	6	3/4
*HC-308	5 1/2	7 7/8	8	3/4
HC-309	5 3/4	8 1/8	3	3/4
HC-310	5 3/4	8 1/8	4	3/4
HC-311	5 3/4	8 1/8	5	3/4
HC-312	5 3/4	8 1/8	6	3/4
*HC-313	5 3/4	8 1/8	8	3/4
HC-314	6	8 1/2	3	3/4
HC-315	6	8 1/2	4	3/4
HC-316	6	8 1/2	5	3/4
HC-317	6	8 1/2	6	3/4
*HC-318	6	8 1/2	8	3/4
HC-319	6	9	4	1
HC-320	6	9	5	1
HC-321	6	9	6	1
*HC-322	6	9	8	1
HC-323	6 1/2	9 1/2	4	1
HC-324	6 1/2	9 1/2	5	1
HC-325	6 1/2	9 1/2	6	1
*HC-326	6 1/2	9 1/2	8	1
HC-327	7	10	4	1
HC-328	7	10	5	1
HC-329	7	10	6	1
*HC-330	7	10	8	1
HC-331	7 1/2	10 1/2	4	1
HC-332	7 1/2	10 1/2	5	1
HC-333	7 1/2	10 1/2	6	1
*HC-334	7 1/2	10 1/2	8	1
HC-335	8	11	4	1
HC-336	8	11	5	1
HC-337	8	11	6	1
*HC-338	8	11	8	1

*Indicates bearing of the double cage type construction. Oil holes are located in the center of the length of the bearing race.

NEED HELP ON BEARINGS—CALL US

ECS
SERIES

AMERICAN ROLLER BEARINGS SUPER HEAVY DUTY

ECS SERIES

With inner and outer races

EC
SERIES

Bearing No.	Bearing I.D.	Bearing O.D.	Lgth.	Inner Race O.D.	Roll Dia.
ECS-600	3	5 1/8	2	3 1/8	5/8
ECS-601	3	5 1/8	3	3 1/8	5/8
ECS-602	3	5 1/8	4	3 1/8	5/8
ECS-603	3 1/4	6 1/8	2	4 1/8	5/8
ECS-604	3 1/4	6 1/8	3	4 1/8	5/8
ECS-605	3 1/4	6 1/8	4	4 1/8	5/8
ECS-606	3 1/2	6 3/8	2 1/2	4 3/8	3/4
ECS-607	3 1/2	6 3/8	3	4 3/8	3/4
ECS-608	3 1/2	6 3/8	4	4 3/8	3/4
ECS-609	3 1/2	6 3/8	5	4 3/8	3/4
ECS-610	3 3/4	7 1/8	2 1/2	4 3/4	3/4
ECS-611	3 3/4	7 1/8	3	4 3/4	3/4
ECS-612	3 3/4	7 1/8	4	4 3/4	3/4
ECS-613	3 3/4	7 1/8	5	4 3/4	3/4
*ECS-614	3 3/4	7 1/8	7	4 3/4	3/4
ECS-615	4	7 3/8	2 1/2	5	3/4
ECS-616	4	7 3/8	3	5	3/4
ECS-617	4	7 3/8	4	5	3/4
ECS-618	4	7 3/8	5	5	3/4
*ECS-619	4	7 3/8	7	5	3/4
ECS-620	4 1/4	7 7/8	3	5 1/4	3/4
ECS-621	4 1/4	7 7/8	4	5 1/4	3/4
ECS-622	4 1/4	7 7/8	5	5 1/4	3/4
*ECS-623	4 1/4	7 7/8	7	5 1/4	3/4
ECS-624	4 1/2	8 1/2	3	5 3/4	7/8
ECS-625	4 1/2	8 1/2	4	5 3/4	7/8
ECS-626	4 1/2	8 1/2	5	5 3/4	7/8
*ECS-627	4 1/2	8 1/2	7	5 3/4	7/8
ECS-628	4 3/4	8 3/4	3	6	7/8
ECS-629	4 3/4	8 3/4	4	6	7/8
ECS-630	4 3/4	8 3/4	5	6	7/8

Bearing No.	Bearing I.D.	Bearing O.D.	Lgth.	Inner Race O.D.	Roll Dia.
*ECS-631	4 3/4	8 3/4	7	6	1 1/8
ECS-632	5	9 1/4	3 1/2	6 1/4	1
ECS-633	5	9 1/4	4	6 1/4	1
ECS-634	5	9 1/4	5	6 1/4	1
ECS-635	5	9 1/4	6	6 1/4	1
*ECS-636	5	9 1/4	8	6 1/4	1
ECS-637	5 1/4	9 1/2	3 1/2	6 1/2	1
ECS-638	5 1/4	9 1/2	4	6 1/2	1
ECS-639	5 1/4	9 1/2	5	6 1/2	1
ECS-640	5 1/4	9 1/2	6	6 1/2	1
*ECS-641	5 1/4	9 1/2	8	6 1/2	1
ECS-642	5 1/2	9 3/4	3 1/2	6 3/4	1
ECS-643	5 1/2	9 3/4	4	6 3/4	1
ECS-644	5 1/2	9 3/4	5	6 3/4	1
ECS-645	5 1/2	9 3/4	6	6 3/4	1
*ECS-646	5 1/2	9 3/4	8	6 3/4	1
ECS-647	6	10 3/4	4	7 3/8	1 1/8
ECS-648	6	10 3/4	5	7 3/8	1 1/8
ECS-649	6	10 3/4	6	7 3/8	1 1/8
*ECS-650	6	10 3/4	8	7 3/8	1 1/8
ECS-651	6 1/2	11 1/4	4	7 7/8	1 1/4
ECS-652	6 1/2	11 1/4	5	7 7/8	1 1/4
ECS-653	6 1/2	11 1/4	6	7 7/8	1 1/4
*ECS-654	6 1/2	11 1/4	8	7 7/8	1 1/4
ECS-655	7	12 1/4	4	8 1/2	1 1/4
ECS-656	7	12 1/4	5	8 1/2	1 1/4
ECS-657	7	12 1/4	6	8 1/2	1 1/4
ECS-658	7	12 1/4	7	8 1/2	1 1/4
*ECS-659	7	12 1/4	9	8 1/2	1 1/4
ECS-660	7 1/2	12 3/4	4	9	1 1/2
ECS-661	7 1/2	12 3/4	5	9	1 1/2

Bearing No.	Bearing I.D.	Bearing O.D.	Lgth.	Inner Race O.D.	Roll Dia.
ECS-662	7 1/2	12 3/4	6	9	1 1/2
ECS-663	7 1/2	12 3/4	7	9	1 1/2
*ECS-664	7 1/2	12 3/4	10	9	1 1/2
ECS-665	8	13 1/2	5	9 1/2	1 3/8
ECS-666	8	13 1/2	6	9 1/2	1 3/8
ECS-667	8	13 1/2	7	9 1/2	1 3/8
*ECS-668	8	13 1/2	10	9 1/2	1 3/8
ECS-669	8 1/2	14	5	10	1 3/8
ECS-670	8 1/2	14	6	10	1 3/8
ECS-671	8 1/2	14	7	10	1 3/8
*ECS-672	8 1/2	14	10	10	1 3/8
ECS-673	9	14 1/2	5	10 1/2	1 3/8
ECS-674	9	14 1/2	6	10 1/2	1 3/8
ECS-675	9	14 1/2	7	10 1/2	1 3/8
*ECS-676	9	14 1/2	10	10 1/2	1 3/8
ECS-677	10	16 1/4	5	11 3/4	1 1/2
ECS-678	10	16 1/4	6	11 3/4	1 1/2
ECS-679	10	16 1/4	7	11 3/4	1 1/2
ECS-680	10	16 1/4	8	11 3/4	1 1/2
*ECS-681	10	16 1/4	10	11 3/4	1 1/2
ECS-682	11	17 1/4	5	12 3/4	1 1/2
ECS-683	11	17 1/4	6	12 3/4	1 1/2
ECS-684	11	17 1/4	7	12 3/4	1 1/2
ECS-685	11	17 1/4	8	12 3/4	1 1/2
*ECS-686	11	17 1/4	10	12 3/4	1 1/2
ECS-687	12	18 3/4	6	14	1 5/8
ECS-688	12	18 3/4	7	14	1 5/8
ECS-689	12	18 3/4	8	14	1 5/8
ECS-690	12	18 3/4	9	14	1 5/8
*ECS-691	12	18 3/4	12	14	1 5/8

EC SERIES

Outer Race and Roller Assembly Only

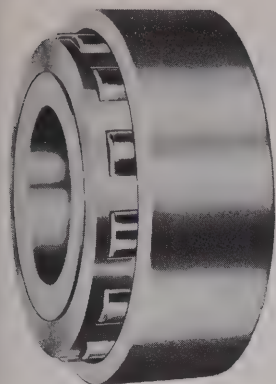
Bearing No.	Brg. S.D.	Brg. O.D.	Length	Roll Dia.
EC-600	3	5	2	5/8
EC-601	3	5	3	5/8
EC-602	3	5	4	5/8
EC-603	3 1/4	5 1/4	2	5/8
EC-604	3 1/4	5 1/4	3	5/8
EC-605	3 1/4	5 1/4	4	5/8
EC-606	3 1/2	5 3/4	2 1/2	3/4
EC-607	3 1/2	5 3/4	3	3/4
EC-608	3 1/2	5 3/4	4	3/4
EC-609	3 1/2	5 3/4	5	3/4
EC-610	3 3/4	6 1/8	2 1/2	3/4
EC-611	3 3/4	6 1/8	3	3/4
EC-612	3 3/4	6 1/8	4	3/4
EC-613	3 3/4	6 1/8	5	3/4
*EC-614	3 3/4	6 1/8	7	3/4
EC-615	4	6 3/8	2 1/2	3/4
EC-616	4	6 3/8	3	3/4
EC-617	4	6 3/8	4	3/4
EC-618	4	6 3/8	5	3/4
*EC-619	4	6 3/8	7	3/4
EC-620	4 1/4	6 7/8	3	3/4
EC-621	4 1/4	6 7/8	4	3/4
EC-622	4 1/4	6 7/8	5	3/4
*EC-623	4 1/4	6 7/8	7	3/4
EC-624	4 1/2	7 1/4	3	7/8
EC-625	4 1/2	7 1/4	4	7/8
EC-626	4 1/2	7 1/4	5	7/8
*EC-627	4 1/2	7 1/4	7	7/8
EC-628	4 3/4	7 1/2	3	7/8
EC-629	4 3/4	7 1/2	4	7/8
EC-630	4 3/4	7 1/2	5	7/8

Bearing No.	Brg. S.D.	Brg. O.D.	Length	Roll Dia.
*EC-631	4 3/4	7 1/2	7	7/8
EC-632	5	8	3 1/2	1
EC-633	5	8	4	1
EC-634	5	8	5	1
EC-635	5	8	6	1
*EC-636	5	8	8	1
EC-637	5 1/4	8 1/4	3 1/2	1
EC-638	5 1/4	8 1/4	4	1
EC-639	5 1/4	8 1/4	5	1
EC-640	5 1/4	8 1/4	6	1
*EC-641	5 1/4	8 1/4	8	1
EC-642	5 1/2	8 1/2	3 1/2	1
EC-643	5 1/2	8 1/2	4	1
EC-644	5 1/2	8 1/2	5	1
EC-645	5 1/2	8 1/2	6	1
*EC-646	5 1/2	8 1/2	8	1
EC-647	6	9 3/8	4	1 1/8
EC-648	6	9 3/8	5	1 1/8
EC-649	6	9 3/8	6	1 1/8
*EC-650	6	9 3/8	8	1 1/8
EC-651	6 1/2	9 7/8	4	1 1/8
EC-652	6 1/2	9 7/8	5	1 1/8
EC-653	6 1/2	9 7/8	6	1 1/8
*EC-654	6 1/2	9 7/8	8	1 1/8
EC-655	7	10 3/4	4	1 1/4
EC-656	7	10 3/4	5	1 1/4
EC-657	7	10 3/4	6	1 1/4
EC-658	7	10 3/4	7	1 1/4
*EC-659	7	10 3/4	9	1 1/4
EC-660	7 1/2	11 1/4	4	1 1/2
EC-661	7 1/2	11 1/4	5	1 1/2

Bearing No.	Brg. S.D.	Brg. O.D.	Length	Roll Dia.
EC-662	7 1/2	11 1/4	6	1 1/4
EC-663	7 1/2	11 1/4	7	1 1/4
*EC-664	7 1/2	11 1/4	10	1 1/4
EC-665	8	12	5	1 3/8
EC-666	8	12	6	1 3/8
EC-667	8	12	7	1 3/8
*EC-668	8	12	10	1 3/8
EC-669	8 1/2	12 1/2	5	1 3/8
EC-670	8 1/2	12 1/2	6	1 3/8
EC-671	8 1/2	12 1/2	7	1 3/8
*EC-672	8 1/2	12 1/2	10	1 3/8
EC-673	9	13	5	1 3/8
EC-674	9	13	6	1 3/8
EC-675	9	13	7	1 3/8
*EC-676	9	13	10	1 3/8
EC-677	10	14 3/8	5	1 1/2
EC-678	10	14 3/8	6	1 1/2
EC-679	10	14 3/8	7	1 1/2
EC-680	10	14 3/8	8	1 1/2
*EC-681	10	14 3/8	10	1 1/2
EC-682	11	15 3/8	5	1 1/2
EC-683	11	15 3/8	6	1 1/2
EC-684	11	15 3/8	7	1 1/2
EC-685	11	15 3/8	8	1 1/2
*EC-686	11	15 3/8	10	1 1/2
EC-687	12	16 3/4	6	1 5/8
EC-688	12	16 3/4	7	1 5/8
EC-689	12	16 3/4	8	1 5/8
EC-690	12	16 3/4	9	1 5/8
*EC-691	12	16 3/4	12	1 5/8

*Indicates bearing of the double cage type construction.

Oil holes are located in the center of the length of the bearing race. Oil holes will be located in the inner race of the ECS Series Bearings for lubrication introduced through shaft, when specified.



AMERICAN RADIAL ROLLER BEARINGS

BRONZE CAGE TYPE

Metric Dimensions—Single Row Width

The Bearing number is determined by prefixing the letters shown below the various types of bearings to the basic bearing number.



CM



CD



CDD



CC



CDA



CE



CJ



CRK



CZ

Basic Bearing No.	Bearing Inside Dia.		Bearing Outside Dia.		Bearing Width		Fillet Radius	Inner Race Outside Dia. Types CD—CJ
	Mm	Inches	Mm	Inches	Mm	Inches	Inches	Inches

S.A.E. 100 SERIES

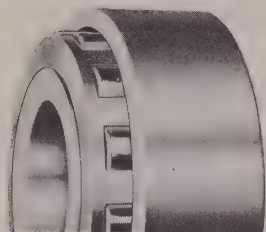
CM CD CDD CC	128	140	5.5118	220	8.6615	36	1.4173	.079	6.3750
	130	150	5.9055	235	9.2520	38	1.4961	.079	6.8750
	132	160	6.2992	250	9.8425	40	1.5748	.079	7.2500
	134	170	6.6929	265	10.4331	42	1.6535	.098	7.6250
	136	180	7.0866	280	11.0236	44	1.7323	.098	8.0625
	138	190	7.4803	300	11.8110	46	1.8110	.098	8.6250
	140	200	7.8740	320	12.5984	48	1.8898	.098	9.1250
	142	210	8.2677	340	13.3858	50	1.9685	.098	9.6250
	144	220	8.6614	350	13.7796	51	2.0079	.098	10.0000
	146	230	9.0551	370	14.5671	53	2.0866	.098	10.5000
	148	240	9.4488	390	15.3545	55	2.1654	.098	10.9375
	150	250	9.8425	410	16.1419	57	2.2441	.118	11.5625
	152	260	10.2362	430	16.9293	59	2.3228	.118	12.1250
	156	280	11.0236	460	18.1102	63	2.4803	.118	13.0000
	160	300	11.8110	480	18.8976	67	2.6378	.118	13.5625
	164	320	12.5984	500	19.6850	71	2.7953	.118	14.3125

S.A.E. 200 SERIES

CM CD CDD CC	216	80	3.1496	140	5.5118	26	1.0236	.079	3.750
	217	85	3.3465	150	5.9055	28	1.1024	.079	4.000
	218	90	3.5433	160	6.2992	30	1.1811	.079	4.250
	219	95	3.7402	170	6.6929	32	1.2598	.079	4.460
	220	100	3.9370	180	7.0866	34	1.3386	.079	4.750
	221	105	4.1339	190	7.4803	36	1.4173	.079	5.000
	222	110	4.3307	200	7.8740	38	1.4961	.079	5.250
	224	120	4.7244	215	8.4646	40	1.5748	.079	5.750
	226	130	5.1181	230	9.0551	40	1.5748	.098	6.062
	228	140	5.5118	250	9.8425	42	1.6535	.098	6.687
	230	150	5.9055	270	10.6299	45	1.7717	.098	7.125
	232	160	6.2992	290	11.4173	48	1.8898	.098	7.625
	234	170	6.6929	310	12.2047	52	2.0472	.118	8.187
	236	180	7.0866	320	12.5984	52	2.0472	.118	8.500
	238	190	7.4803	340	13.3858	55	2.1654	.118	9.062
	240	200	7.8740	360	14.1732	58	2.2835	.118	9.562
	242	210	8.2677	380	14.9606	62	2.4409	.118	10.250
	244	220	8.6614	400	15.7480	65	2.5591	.118	10.625
	246	230	9.0551	420	16.5354	69	2.7165	.118	11.125
	248	240	9.4488	440	17.3228	72	2.8346	.118	11.562
	250	250	9.8425	460	18.1102	76	2.9921	.157	12.125
	252	260	10.2362	480	18.8976	80	3.1496	.157	12.625
	256	280	11.0236	500	19.6850	80	3.1496	.157	13.375
	260	300	11.8110	540	21.2598	85	3.3465	.157	14.375

S.A.E. 300 SERIES

CM CD CDD CC	316	80	3.1496	170	6.6929	39	1.5354	.079	4.000
	317	85	3.3465	180	7.0866	41	1.6142	.098	4.250
	318	90	3.5433	190	7.4803	43	1.6929	.098	4.500
	319	95	3.7402	200	7.8740	45	1.7717	.098	4.750
	320	100	3.9370	215	8.4646	47	1.8504	.098	5.000
	321	105	4.1339	225	8.8583	49	1.9291	.098	5.250
	322	110	4.3307	240	9.4488	50	1.9685	.098	5.500
	324	120	4.7244	260	10.2362	55	2.1654	.098	6.125
	326	130	5.1181	280	11.0236	58	2.2835	.118	6.562
	328	140	5.5118	300	11.8110	62	2.4409	.118	7.062
	330	150	5.9055	320	12.5984	65	2.5591	.118	7.625
	332	160	6.2992	340	13.3858	68	2.6772	.118	8.125
	334	170	6.6929	360	14.1732	72	2.8346	.118	8.562
	336	180	7.0866	380	14.9606	75	2.9528	.118	9.000
	338	190	7.4803	400	15.7480	78	3.0709	.157	9.562
	340	200	7.8740	420	16.5354	80	3.1496	.157	10.062
	344	220	8.6614	460	18.1102	88	3.4646	.157	11.125
	348	240	9.4488	500	19.6850	95	3.7402	.157	12.187
	352	260	10.2362	540	21.2598	102	4.0157	.197	13.250

**AMERICAN RADIAL ROLLER BEARINGS****BRONZE CAGE TYPE****Metric Dimensions—Double Row Width**

The Bearing number is determined by prefixing the letters shown below the various types of bearings to the basic bearing number.

Basic Bearing No.	Bearing Inside Dia.		Bearing Outside Dia.		Bearing Width	Fillet Radius	Inner Race Outside Dia. Types AD—A
	Mm	Inches	Mm	Inches	Inches	Inches	Inches

S.A.E. 5100 SERIES

AM AD ADD AC A	5128	140	5.5118	220	8.6615	2.5000	.079	6.3750
	5130	150	5.9055	235	9.2520	2.6250	.079	6.8750
	5132	160	6.2992	250	9.8425	2.8750	.079	7.2500
	5134	170	6.6929	265	10.4331	3.0000	.098	7.6250
	5136	180	7.0866	280	11.0236	3.2500	.098	8.0625
	5138	190	7.4803	300	11.8110	3.3750	.098	8.6250
	5140	200	7.8740	320	12.5984	3.5000	.098	9.1250
	5142	210	8.2677	340	13.3858	3.7500	.098	9.6250
	5144	220	8.6614	350	13.7796	3.8750	.098	10.0000
	5146	230	9.0551	370	14.5671	4.0000	.098	10.5000
	5148	240	9.4488	390	15.3545	4.2500	.098	10.9375
	5150	250	9.8425	410	16.1419	4.3750	.118	11.5625
	5152	260	10.2362	430	16.9293	4.5000	.118	12.1250
	5156	280	11.0236	460	18.1102	4.8750	.118	13.0000
	5160	300	11.8110	480	18.8976	5.0000	.118	13.5625
	5164	320	12.5984	500	19.6850	5.1250	.118	14.3125



AM



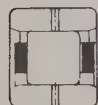
AD



ADD



AC



A



ADA

S.A.E. 5200 SERIES

AM AD ADD AC A	5216	80	3.1496	140	5.5118	1.7500	.079	3.750
	5217	85	3.3465	150	5.9055	1.9375	.079	4.000
	5218	90	3.5433	160	6.2992	2.0625	.079	4.250
	5219	95	3.7402	170	6.6929	2.1875	.079	4.460
	5220	100	3.9370	180	7.0866	2.3750	.079	4.750
	5221	105	4.1339	190	7.4803	2.5625	.079	5.000
	5222	110	4.3307	200	7.8740	2.7500	.079	5.250
	5224	120	4.7244	215	8.4646	3.0000	.079	5.750
	5226	130	5.1181	230	9.0551	3.1250	.098	6.062
	5228	140	5.5118	250	9.8425	3.2500	.098	6.687
	5230	150	5.9055	270	10.6299	3.5000	.098	7.125
	5232	160	6.2992	290	11.4173	3.8750	.098	7.625
	5234	170	6.6929	310	12.2047	4.1250	.118	8.187
	5236	180	7.0866	320	12.5984	4.2500	.118	8.500
	5238	190	7.4803	340	13.3858	4.5000	.118	9.062
	5240	200	7.8740	360	14.1732	4.7500	.118	9.562
	5242	210	8.2677	380	14.9606	5.0000	.118	10.250
	5244	220	8.6614	400	15.7480	5.2500	.118	10.625
	5246	230	9.0551	420	16.5354	5.5000	.118	11.125
	5248	240	9.4488	440	17.3228	5.7500	.118	11.562
	5252	260	10.2362	480	18.8976	6.2500	.157	12.625
	5256	280	11.0236	500	19.6850	6.5000	.157	13.375
	5260	300	11.8110	540	21.2598	7.0000	.157	14.375



AE



AJ

S.A.E. 5300 SERIES

AM AD ADD AC A	5316	80	3.1496	170	6.6929	2.6875	.079	4.000
	5317	85	3.3465	180	7.0866	2.8750	.098	4.250
	5318	90	3.5433	190	7.4803	2.8750	.098	4.500
	5319	95	3.7402	200	7.8740	3.0625	.098	4.750
	5320	100	3.9370	215	8.4646	3.2500	.098	5.000
	5321	105	4.1339	225	8.8583	3.4375	.098	5.250
	5322	110	4.3307	240	9.4488	3.6250	.098	5.500
	5324	120	4.7244	260	10.2362	4.1250	.098	6.125
	5326	130	5.1181	280	11.0236	4.3750	.118	6.562
	5328	140	5.5118	300	11.8110	4.5000	.118	7.062
	5330	150	5.9055	320	12.5984	4.8750	.118	7.625
	5332	160	6.2992	340	13.3858	5.2500	.118	8.125
	5334	170	6.6929	360	14.1732	5.5000	.118	8.562
	5336	180	7.0866	380	14.9606	5.7500	.118	9.000
	5338	190	7.4803	400	15.7480	6.0000	.157	9.562
	5340	200	7.8740	420	16.5354	6.5000	.157	10.062
	5344	220	8.6614	460	18.1102	7.0000	.157	11.125
	5348	240	9.4488	500	19.6850	7.5000	.157	12.187
	5352	260	10.2362	540	21.2598	8.0000	.197	13.250



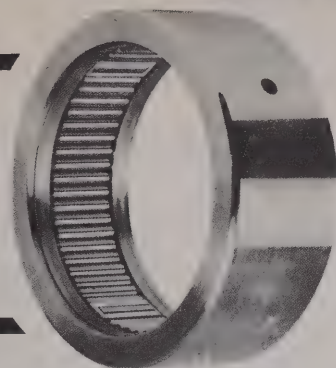
ARK



AZ

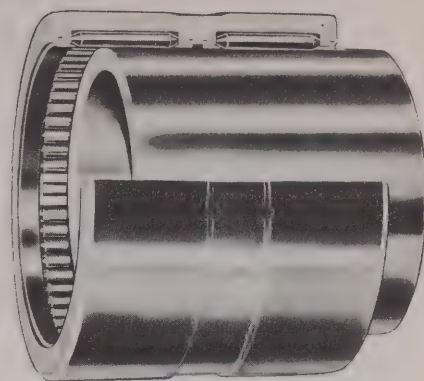
AMERICAN NEEDLE BEARINGS

PATENTED
NON-SKEW
ROLLER
GUIDE
BLOCKS



Patented non-skew roller guide blocks used in American Needle Bearings prevents the skewing of rollers, enabling the rollers to enter the load zone under perfect alignment.

American Needle Bearings are available in single and double row types, with and without inner races, as shown in the tables below.



WITHOUT INNER RACES SINGLE AND DOUBLE ROW

Bearing Number	BEARING DIMENSIONS		
	Shaft Dia.*	Outside Dia.	Width

SINGLE ROW—AFBMA STANDARDS

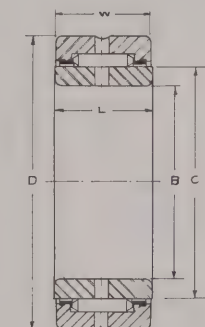
NB-52	2.5000	3.2500	1.5000
NB-56	2.7500	3.5000	1.5000
NB-60	3.0000	3.7500	1.5000
NB-68	3.2500	4.2500	2.0000
NB-72	3.5000	4.5000	2.0000
NB-76	3.7500	4.7500	2.0000
NB-80	4.0000	5.0000	2.0000
NB-84	4.2500	5.2500	2.0000
NB-96	4.5000	6.0000	2.5000
NB-104	5.0000	6.5000	2.5000
NB-112	5.5000	7.0000	2.5000
NB-120	6.0000	7.5000	2.5000
NB-128	6.5000	8.0000	2.5000
NB-146	7.2500	9.1250	3.0000
NB-154	7.7500	9.6250	3.0000
NB-162	8.2500	10.1250	3.0000
NB-170	8.7500	10.6250	3.0000
NB-178	9.2500	11.1250	3.0000

DOUBLE ROW—AFBMA STANDARDS

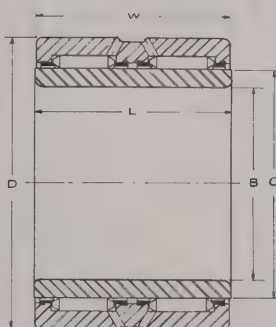
NDB-72	3.5000	4.5000	4.0000
NDB-76	3.7500	4.7500	4.0000
NDB-80	4.0000	5.0000	4.0000
NDB-84	4.2500	5.2500	4.0000
NDB-96	4.5000	6.0000	5.0000
NDB-104	5.0000	6.5000	5.0000
NDB-112	5.5000	7.0000	5.0000
NDB-120	6.0000	7.5000	5.0000
NDB-128	6.5000	8.0000	5.0000
NDB-146	7.2500	9.1250	6.0000
NDB-154	7.7500	9.6250	6.0000
NDB-162	8.2500	10.1250	6.0000
NDB-170	8.7500	10.6250	6.0000
NDB-178	9.2500	11.1250	6.0000

DOUBLE ROW—LIGHT CROSS SECTION-TYPE

ND-6375	4.5000	5.7500	4.5000
ND-6400	4.7500	6.0000	4.5000
ND-6425	5.0000	6.2500	4.5000
ND-6450	5.2500	6.5000	4.5000
ND-6475	5.5000	6.7500	4.5000
ND-6500	5.7500	7.0000	4.5000
ND-6510	5.7500	7.0000	5.5000
ND-6520	6.0000	7.2500	4.5000
ND-6525	6.0000	7.2500	5.5000
ND-6540	6.2500	7.5000	4.5000
ND-6550	6.2500	7.5000	5.5000
ND-6570	6.5000	7.7500	4.5000
ND-6575	6.5000	7.7500	5.5000
ND-6590	6.7500	8.0000	4.5000
ND-6600	6.7500	8.0000	5.5000
ND-6620	7.0000	8.5000	4.5000
ND-6625	7.0000	8.5000	5.5000
ND-6650	7.5000	9.0000	6.0000



SINGLE ROW
With Inner Race



DOUBLE ROW
With Inner Race

*When inner races are not used, the shaft should be hardened to 60 Rockwell C Scale and ground, with Shaft Diameter Tolerances as follows:

2.5000" to 4.0000" +.0000" —.0005"

4.0000" to 6.0000" +.0000" —.0007"

6.0000" to 9.2500" +.0000" —.0010"

BEARING NUMBER	BEARING DIMENSIONS				
	Bore (B)	Out. Dia. (D)	Width (W)	INNER RACE	
				Out. Dia. (C)	Length (L)

SINGLE ROW—AFBMA STANDARDS

NB-52-S	2.0000	3.2500	1.5000	2.5000	1.5100
NB-56-S	2.2500	3.5000	1.5000	2.7500	1.5100
NB-60-S	2.5000	3.7500	1.5000	3.0000	1.5100
NB-68-S	2.7500	4.2500	2.0000	3.2500	2.0100
NB-72-S	3.0000	4.5000	2.0000	3.5000	2.0100
NB-76-S	3.1250	4.7500	2.0000	3.7500	2.0100
NB-80-S	3.2500	5.0000	2.0000	4.0000	2.0100
NB-84-S	3.5000	5.2500	2.0000	4.2500	2.0100
NB-96-S	3.7500	6.0000	2.5000	4.5000	2.5100
NB-104-S	4.0000	6.5000	2.5000	5.0000	2.5100
NB-112-S	4.5000	7.0000	2.5000	5.5000	2.5100
NB-120-S	5.0000	7.5000	2.5000	6.0000	2.5100
NB-128-S	5.5000	8.0000	2.5000	6.5000	2.5100
NB-146-S	6.0000	9.1250	3.0000	7.2500	3.0150
NB-154-S	6.5000	9.6250	3.0000	7.7500	3.0150
NB-162-S	7.0000	10.1250	3.0000	8.2500	3.0150
NB-170-S	7.5000	10.6250	3.0000	8.7500	3.0150
NB-178-S	8.0000	11.1250	3.0000	9.2500	3.0150

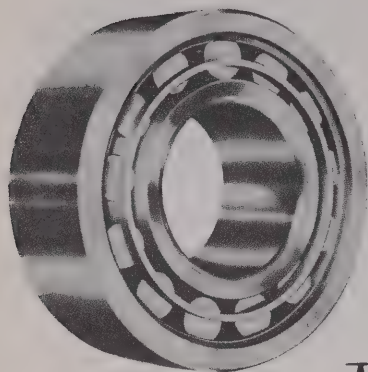
DOUBLE ROW—AFBMA STANDARDS

NDB-72-S	3.0000	4.5000	4.0000	3.5000	4.0100
NDB-76-S	3.1250	4.7500	4.0000	3.7500	4.0100
NDB-80-S	3.2500	5.0000	4.0000	4.0000	4.0100
NDB-84-S	3.5000	5.2500	4.0000	4.2500	4.0100
NDB-96-S	3.7500	6.0000	5.0000	4.5000	5.0100
NDB-104-S	4.0000	6.5000	5.0000	5.0000	5.0100
NDB-112-S	4.5000	7.0000	5.0000	5.5000	5.0150
NDB-120-S	5.0000	7.5000	5.0000	6.0000	5.0150
NDB-128-S	5.5000	8.0000	5.0000	6.5000	5.0150
NDB-146-S	6.0000	9.1250	6.0000	7.2500	6.0150
NDB-154-S	6.5000	9.6250	6.0000	7.7500	6.0150
NDB-162-S	7.0000	10.1250	6.0000	8.2500	6.0150
NDB-170-S	7.5000	10.6250	6.0000	8.7500	6.0150
NDB-178-S	8.0000	11.1250	6.0000	9.2500	6.0150

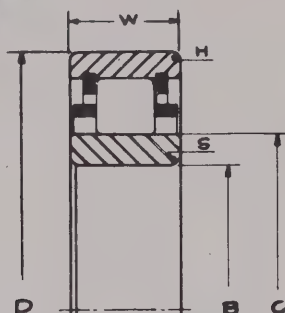
DOUBLE ROW—LIGHT CROSS SECTION TYPE

ND-6375-S	3.7500	5.7500	4.5000	4.5000	—
ND-6400-S	4.0000	6.0000	4.5000	4.7500	—
ND-6425-S	4.2500	6.2500	4.5000	5.0000	—
ND-6450-S	4.5000	6.5000	4.5000	5.2500	—
ND-6475-S	4.7500	6.7500	4.5000	5.5000	—
ND-6500-S	5.0000	7.0000	4.5000	5.7500	—
ND-6510-S	5.0000	7.0000	5.5000	5.7500	—
ND-6520-S	5.2500	7.2500	4.5000	6.0000	—
ND-6525-S	5.2500	7.2500	5.5000	6.0000	—
ND-6540-S	5.5000	7.5000	4.5000	6.2500	—
ND-6550-S	5.5000	7.5000	5.5000	6.2500	—
ND-6570-S	5.7500	7.7500	4.5000	6.5000	—
ND-6575-S	5.7500	7.7500	5.5000	6.5000	—
ND-6590-S	6.0000	8.0000	4.5000	6.7500	—
ND-6600-S	6.0000	8.0000	5.5000	6.7500	—
ND-6620-S	6.2500	8.5000	4.5000	7.0000	—
ND-6625-S	6.2500	8.5000	5.5000	7.0000	—
ND-6650-S	6.5000	9.0000	6.0000	7.5000	—

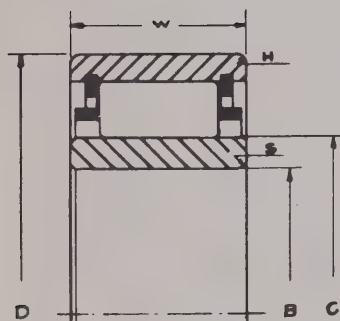
AMERICAN RADIAL ROLLER BEARINGS STAMPED STEEL CAGE TYPE METRIC DIMENSIONS



**Inner Race
Separable**



1200 and 1300 SERIES



5200 and 5300 SERIES

Bearing Number	BEARING DIMENSIONS						Inner Race Outside Diameter C
	Inside Diameter B		Outside Diameter D		Width W		
	Mm	Inches	Mm	Inches	Mm	Inches	

SAE 1200 SERIES—SINGLE ROW WIDTH

AD-1220X	100	3.9370	180	7.0866	34	1.3386	4.764
AD-1221X	105	4.1339	190	7.4803	36	1.4173	4.981
AD-1222X	110	4.3307	200	7.8740	38	1.4961	5.234
AD-1224X	120	4.7244	215	8.4646	40	1.5748	5.714
AD-1226X	130	5.1181	230	9.0551	40	1.5748	6.101
AD-1228X	140	5.5118	250	9.8425	42	1.6535	6.632
AD-1230X	150	5.9055	270	10.6299	45	1.7717	7.147
AD-1232X	160	6.2992	290	11.4173	48	1.8898	7.623
AD-1234X	170	6.6929	310	12.2047	52	2.0472	8.090
AD-1236X	180	7.0866	320	12.5984	52	2.0472	8.515
AD-1238X	190	7.4803	340	13.3858	55	2.1654	9.013
AD-1240X	200	7.8740	360	14.1732	58	2.2835	9.535
AD-1244X	220	8.6614	400	15.7480	65	2.5591	10.469
AD-1248X	240	9.4488	440	17.3228	72	2.8346	11.464
AD-1252X	260	10.2362	480	18.8976	80	3.1496	12.543
AD-1256X	280	11.0236	500	19.6850	80	3.1496	13.203

SAE 1300 SERIES—SINGLE ROW WIDTH

AD-1316X	80	3.1496	170	6.6929	39	1.5354	4.001
AD-1317X	85	3.3465	180	7.0866	41	1.6142	4.272
AD-1318X	90	3.5433	190	7.4803	43	1.6929	4.489
AD-1319X	95	3.7402	200	7.8740	45	1.7717	4.809
AD-1320X	100	3.9370	215	8.4646	47	1.8504	5.125
AD-1321X	105	4.1339	225	8.8583	49	1.9291	5.362
AD-1322X	110	4.3307	240	9.4488	50	1.9685	5.719
AD-1324X	120	4.7244	260	10.2362	55	2.1654	6.182
AD-1326X	130	5.1181	280	11.0236	58	2.2835	6.714
AD-1328X	140	5.5118	300	11.8110	62	2.4409	7.153
AD-1330X	150	5.9055	320	12.5984	65	2.5591	7.516
AD-1332X	160	6.2992	340	13.3858	68	2.6772	8.106
AD-1334X	170	6.6929	360	14.1732	72	2.8346	8.532
AD-1336X	180	7.0866	380	14.9606	75	2.9528	9.123

Bearing Number	BEARING DIMENSIONS					Inner Race Outside Diameter C
	Inside Diameter B		Outside Diameter D		Width W	
	Mm	Inches	Mm	Inches	Inches	Inches

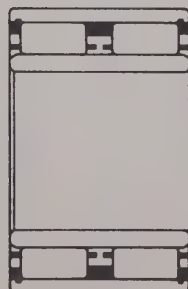
SAE 5200 SERIES—DOUBLE ROW WIDTH

AD-5220X	100	3.9370	180	7.0866	2.3750	4.764
AD-5221X	105	4.1339	190	7.4803	2.5625	4.981
AD-5222X	110	4.3307	200	7.8740	2.7500	5.234
AD-5224X	120	4.7244	215	8.4646	3.0000	5.714
AD-5226X	130	5.1181	230	9.0551	3.1250	6.101
AD-5228X	140	5.5118	250	9.8425	3.2500	6.632
AD-5230X	150	5.9055	270	10.6299	3.5000	7.147
AD-5232X	160	6.2992	290	11.4173	3.8750	7.623
AD-5234X	170	6.6929	310	12.2047	4.1250	8.090
AD-5236X	180	7.0866	320	12.5984	4.2500	8.515
AD-5238X	190	7.4803	340	13.3858	4.5000	9.013
AD-5240X	200	7.8740	360	14.1732	4.7500	9.535

Bearing Number	BEARING DIMENSIONS					Inner Race Outside Diameter C
	Inside Diameter B		Outside Diameter D		Width W	
	Mm	Inches	Mm	Inches	Inches	Inches

SAE 5300 SERIES—DOUBLE ROW WIDTH

AD-5316X	80	3.1496	170	6.6929	2.6875	4.001
AD-5317X	85	3.3465	180	7.0866	2.8750	4.272
AD-5318X	90	3.5433	190	7.4803	2.8750	4.489
AD-5319X	95	3.7402	200	7.8740	3.0625	4.809
AD-5320X	100	3.9370	215	8.4646	3.2500	5.125
AD-5321X	105	4.1339	225	8.8583	3.4375	5.362
AD-5322X	110	4.3307	240	9.4488	3.6250	5.719
AD-5324X	120	4.7244	260	10.2362	4.1250	6.182
AD-5326X	130	5.1181	280	11.0236	4.3750	6.714
AD-5328X	140	5.5118	300	11.8110	4.5000	7.153
AD-5330X	150	5.9055	320	12.5984	4.8750	7.516
AD-5332X	160	6.2992	340	13.3858	5.2500	8.106

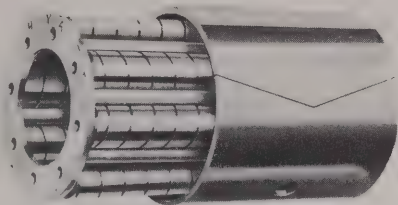


DOUBLE ROW—DUPLEX WIDTH SERIES

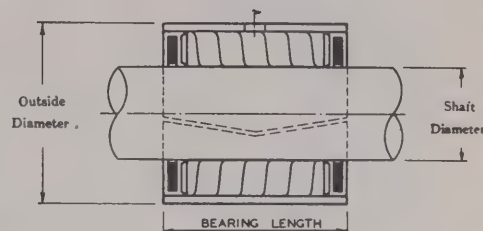
Complete Bearing Number	INSIDE DIA. Inner Race		OUTSIDE DIA. Outer Race		Width	Out. Dia. Inner Race
	Mm	Inches	Mm	Inches	Inches	Inches
AD-6220-X	100	3.9370	180	7.0866	4.750	4.764
AD-6224-X	120	4.7244	215	8.4646	6.000	5.714
AD-6230-X	150	5.9055	270	10.6299	7.000	7.147
AD-6232-X	160	6.2992	290	11.4173	7.750	7.623
AD-6236-X	180	7.0866	320	12.5984	8.500	8.515

HYATT ROLLER BEARINGS

SPLIT OUTER RACES — NO INNER RACES WOUND ROLLERS



18,000
40,000
and
49,000
SERIES



Bearing No.	Nominal Shaft Dia. Inches	Nominal Out. Dia. of Bearing Inches	Bearing Length Inches	Roller Dia. Inches
*40004	7/8	1 1/16	1 1/2	5/16
*18120			1	
*18122			1 1/2	
18125			2	
*18127	1	1 15/16	2 1/2	3/8
18130			3	
18135			4	
18150			2	
18152	1 1/8	2 3/16	2 1/2	7/16
18155			3	
18160			4	
18175			2	
18177	1 3/16	2 3/8	2 1/2	1/2
18180			3	
18185			4	
18198	1 1/4	2 3/16	3	3/8
18199			4	
18195			2	
18197			2 1/2	
18200	1 1/4	2 7/16	3	1/2
18205			4	
18210			5	
18750	1 5/16	2 1/2	3	1/2
18220			2	
18222			2 1/2	
18225	1 3/8	2 9/16	3	1/2
18230			4	
18245			2	
48247			2 1/2	
18250	1 7/16	2 3/4	3	9/16
18255			4	
18260			5	
18270			2	
18272			2 1/2	
18275	1 1/2	2 13/16	3	9/16
18280			4	
18285			5	
49280	1 1/2	3 3/16	4	3/4

Bearing No.	Nominal Shaft Dia. Inches	Nominal Out. Dia. of Bearing Inches	Bearing Length Inches	Roller Dia. Inches
18295			2	
18297			2 1/2	
18300	1 5/8	2 15/16	3	9/16
18305			4	
49305	1 5/8	3 3/16	4	1 1/16
18315			2	
18317			2 1/2	
18320	1 11/16	3	3	9/16
18325			4	
18340			2	
40006			3	
*18345	1 3/4	3 1/16	3	9/16
18355			4	
40003			3	
18370			3	
18375	1 7/8	3 3/16	4	9/16
18380			5	
18390			2	
18395			3	
18400	1 15/16	3 7/16	4	5/8
18405			5	
18410			6	
18415			2	
18417			2 1/2	
18420			3	
18425	2	3 1/2	4	5/8
18430			5	
49422			3 1/2	
49425	2	4	4	7/8
49430			5	
18450	2 1/8	3 5/8	4	5/8
49470			3	
*49475	2 3/16	4 3/16	4	7/8
49480			5	
18500	2 1/4	3 3/4	4	5/8
49495			3	
49500			4	
49505	2 1/4	4 1/4	5	7/8
49510			6	

Bearing No.	Nominal Shaft Dia. Inches	Nominal Out. Dia. of Bearing Inches	Bearing Length Inches	Roller Dia. Inches
49555	2 7/16	4 9/16	5	1 5/16
18575	2 1/2	4 1/8	4	1 1/16
49573			3	
40007			4	
*49575			4	
*49580	2 1/2	4 5/8	5	1 5/16
*49585			6	
49590			7	
40013	2 1/2	4 5/8	6	1
49650			4	
49655	2 3/4	4 7/8	5	1 5/16
49661			6	
40014	3	5 1/4	7	1 5/16
49725			4	
49730	3	5 1/4	5	1
49732			5 1/2	
49737			6	
*49740			7	
40010			4	
40015	3 1/2	6 1/8	5	1 1/8
40025			7	
40061			4	
40066	4	6 5/8	5	1 1/8
40071			6	
40075			7	
40360			4	
40365			5	
40370	4 1/2	7 3/8	6	1 1/4
40374			7	
40410			4	
40415			5	
40420	5	7 7/8	6	1 1/4
40424			7	
40485			4	
40490	5 3/4	8 5/8	5	1 1/4
40499			7	
40265			5	
40270	6	8 7/8	6	1 1/4
40274			7	
40290			5	
40498	7	10 1/8	7	1 3/8

*Check for availability.

Identification of Hyatt Roller Assemblies

TO AVOID DELAY—Read the following before ordering.

Hyatt roller assemblies are not stamped with the Hyatt part number of the assembly, but are stamped with a factory number known as the "end ring number." The exception to this is the Junior series which has the Hyatt number stamped on one of the stay bars. The same end ring number may be used on several roller assemblies, each having the same shaft and outside diameter dimensions, but differing in bearing length.

Therefore, when ordering Hyatt bearings—furnish the cata-

log number if possible, or supply the following information:

1. End ring number.
2. Length of bearing or housing in which bearing operates.
3. Type of outer race. (split—solid)
4. Number stamped on outer race, if available.
5. If inner race is desired, give number if available or shaft diameter and length of inner race.

WITH THIS INFORMATION, immediate shipment can be made in most instances.

NEED HELP ON BEARINGS—CALL US

HYATT ROLLER BEARINGS

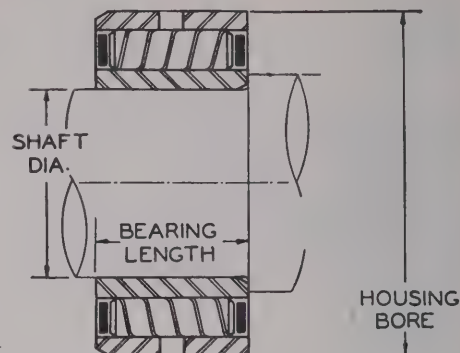
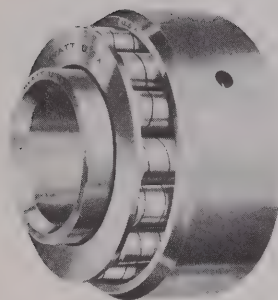
SOLID INNER RACES — SOLID OUTER RACES

WOUND ROLLERS

200 and 300 SERIES

Certain sizes of the 200 and 300 series are also available with notched or adapter type inner races suitable for application to fractional size commercial shafting.

**WOUND ROLLER TYPE BEARINGS SHOWN
ON THIS PAGE ARE BEING SUPERSEDED
BY 99,000 SERIES, PAGE 98.**



Bearing No.	SHAFT DIAMETER			HOUSING BORE			Bearing Lgth.	ROLLERS	
	Mm	Shaft Limits Inner Race Press Fit		Mm	Housing Bore Limits			No.	Dia.
305	25	.9850	.9846	62	2.4419	2.4409	1 1/8	11	7/16
S405	25	.9850	.9846	72	2.8357	2.8346	1 3/16	10	9/16
206	30	1.1819	1.1814	62	2.4419	2.4409	1 3/16	17	5/16
W206	30	1.1819	1.1814	62	2.4419	2.4409	1 3/8	17	5/16
306	30	1.1819	1.1814	72	2.8357	2.8346	1 3/16	12	7/2
N306	30	1.1819	1.1814	72	2.8357	2.8346	1 3/16	12	7/2
S406	30	1.1819	1.1814	80	3.1508	3.1496	1 3/8	12	9/16
207	35	1.3789	1.3784	72	2.8357	2.8346	1 5/16	17	3/8
W207	35	1.3789	1.3784	72	2.8357	2.8346	1 3/8	17	3/8
307	35	1.3789	1.3784	80	3.1508	3.1496	1 3/8	13	1/2
208	40	1.5758	1.5753	80	3.1508	3.1496	1	19	3/8
W208	40	1.5758	1.5753	80	3.1508	3.1496	1 3/8	19	3/8
308	40	1.5758	1.5753	90	3.5446	3.5432	1 1/16	14	9/16
209	45	1.7728	1.7723	85	3.3478	3.3465	1 1/8	20	3/8
W209	45	1.7728	1.7723	85	3.3478	3.3465	1 9/16	20	3/8
309	45	1.7728	1.7723	100	3.9384	3.9369	1 9/16	14	5/8
210	50	1.9697	1.9692	90	3.5446	3.5432	1 1/4	22	3/8
W210	50	1.9697	1.9692	90	3.5446	3.5432	1 3/4	22	3/8
D210	50	1.9697	1.9692	90	3.5446	3.5432	3 1/2	44	3/8
310	50	1.9697	1.9692	110	4.3322	4.3306	1 3/4	14	1 1/16
211	55	2.1667	2.1661	100	3.9384	3.9369	1 5/16	21	7/16
W211	55	2.1667	2.1661	100	3.9384	3.9369	1 13/16	21	7/16
D211	55	2.1667	2.1661	100	3.9384	3.9369	3 5/8	42	7/16
311	55	2.1667	2.1661	120	4.7260	4.7243	1 15/16	15	1 1/16
212	60	2.3636	2.3630	110	4.3322	4.3306	1 7/16	20	1 1/2
W212	60	2.3636	2.3630	110	4.3322	4.3306	1 15/16	20	1 1/2
D212	60	2.3636	2.3630	110	4.3322	4.3306	3 7/8	40	1 1/2
M312	60	2.3636	2.3630	130	5.1197	5.1179	2 1/8	15	3/4
213	65	2.5605	2.5599	120	4.7260	4.7243	1 1/2	22	1 1/2
W213	65	2.5605	2.5599	120	4.7260	4.7243	2 1/16	22	1 1/2
D213	65	2.5605	2.5599	120	4.7260	4.7243	4 1/8	44	1 1/2
M313	65	2.5605	2.5599	140	5.5135	5.5116	2 5/16	15	1 1/2
214	70	2.7574	2.7568	125	4.9229	4.9212	1 5/8	23	1 1/2
W214	70	2.7574	2.7568	125	4.9229	4.9212	2 3/8	23	1 1/2
D214	70	2.7574	2.7568	125	4.9229	4.9212	4 3/4	46	1 1/2
M314	70	2.7574	2.7568	150	5.9073	5.9053	2 1/2	15	7/8
215	75	2.9544	2.9537	130	5.1197	5.1179	1 3/4	24	1 1/2
W215	75	2.9544	2.9537	130	5.1197	5.1179	2 5/8	24	1 1/2
D215	75	2.9544	2.9537	130	5.1197	5.1179	5 1/4	48	1 1/2
M315	75	2.9544	2.9537	160	6.3011	6.2990	2 11/16	15	1 5/16
216	80	3.1513	3.1506	140	5.5135	5.5116	1 13/16	23	9/16
W216	80	3.1513	3.1506	140	5.5135	5.5116	2 5/8	23	9/16
D216	80	3.1513	3.1506	140	5.5135	5.5116	5 1/4	46	9/16
M316	80	3.1513	3.1506	170	6.6948	6.6926	2 11/16	15	1

Bearing No.	SHAFT DIAMETER			HOUSING BORE			Bearing Lgth.	ROLLERS	
	Mm	Shaft Limits Inner Race Press Fit		Mm	Housing Bore Limits			No.	Dia.
217	85	3.3482	3.3475	150	5.9073	5.9053	1 ¹⁵ / ₁₆	22	⁵ / ₈
W217	85	3.3482	3.3475	150	5.9073	5.9053	2 ³ / ₄	22	⁵ / ₈
D217	85	3.3482	3.3475	150	5.9073	5.9053	5 ¹ / ₂	44	⁵ / ₈
M317	85	3.3482	3.3475	180	7.0886	7.0863	2 ⁷ / ₈	16	1
218	90	3.5451	3.5444	160	6.3011	6.2990	2 ¹ / ₁₆	22	¹¹ / ₁₆
W218	90	3.5451	3.5444	160	6.3011	6.2990	2 ¹³ / ₁₆	22	¹¹ / ₁₆
D218	90	3.5451	3.5444	160	6.3011	6.2990	5 ⁵ / ₈	44	¹¹ / ₁₆
318	90	3.5451	3.5444	190	7.4824	7.4800	3	16	1 ¹ / ₁₆
219	95	3.7421	3.7413	170	6.6948	6.6926	2 ³ / ₁₆	21	³ / ₄
W219	95	3.7421	3.7413	170	6.6948	6.6926	3	21	³ / ₄
D219	95	3.7421	3.7413	170	6.6948	6.6926	6	42	³ / ₄
M319	95	3.7421	3.7413	200	7.8762	7.8737	3 ¹ / ₁₆	16	1 ¹ / ₈
220	100	3.9390	3.9382	180	7.0886	7.0863	2 ⁵ / ₁₆	22	³ / ₄
W220	100	3.9390	3.9382	180	7.0886	7.0863	3 ¹ / ₄	22	³ / ₄
D220	100	3.9390	3.9382	180	7.0886	7.0863	6 ¹ / ₂	44	³ / ₄
320	100	3.9390	3.9382	215	8.4649	8.4643	3 ³ / ₄	15	1 ¹ / ₄
222	110	4.3328	4.3320	200	7.8762	7.8737	2 ⁹ / ₁₆	21	⁷ / ₈
W222	110	4.3328	4.3320	200	7.8762	7.8737	3 ¹ / ₂	21	⁷ / ₈
D222	110	4.3328	4.3320	200	7.8762	7.8737	7	42	⁷ / ₈
322	110	4.3328	4.3320	240	9.4512	9.4484	3 ³ / ₄	15	1 ³ / ₈
M322	110	4.3328	4.3320	240	9.4512	9.4484	3 ⁵ / ₈	15	1 ³ / ₈
224	120	4.7267	4.7258	215	8.4669	8.4643	2 ¹³ / ₁₆	21	¹⁵ / ₁₆
W224	120	4.7267	4.7258	215	8.4669	8.4643	3 ⁷ / ₈	21	¹⁵ / ₁₆
D224	120	4.7267	4.7258	215	8.4669	8.4643	7 ³ / ₄	42	¹⁵ / ₁₆
324	120	4.7267	4.7258	260	10.2388	10.2358	4 ¹ / ₈	16	1 ³ / ₈
226	130	5.1205	5.1196	230	9.0574	9.0547	3 ¹ / ₈	21	1
W226	130	5.1205	5.1196	230	9.0574	9.0547	4 ¹ / ₄	21	1
D226	130	5.1205	5.1196	230	9.0574	9.0547	8 ¹ / ₂	42	1
SW226	130	5.1205	5.1196	215	8.4669	8.4643	4 ³ / ₈	27	³ / ₄
SD226	130	5.1205	5.1196	215	8.4669	8.4643	9 ³ / ₄	54	³ / ₄
326	130	5.1205	5.1196	280	11.0263	11.0231	4 ³ / ₈	16	1 ¹ / ₂
228	140	5.5143	5.5133	250	9.8450	9.8421	3 ¹ / ₄	22	1 ¹ / ₁₆
W228	140	5.5143	5.5133	250	9.8450	9.8421	4 ³ / ₄	22	1 ¹ / ₁₆
D228	140	5.5143	5.5133	250	9.8450	9.8421	9 ¹ / ₂	44	1 ¹ / ₁₆
230	150	5.9081	5.9071	270	10.6326	10.6295	3 ¹ / ₂	21	1 ³ / ₁₆
W230	150	5.9081	5.9071	270	10.6326	10.6295	4 ³ / ₄	21	1 ³ / ₁₆
232	160	6.3019	6.3008	290	11.4201	11.4168	3 ⁷ / ₈	21	1 ¹ / ₄
W232	160	6.3019	6.3008	290	11.4201	11.4168	4 ⁷ / ₈	21	1 ¹ / ₄
D232	160	6.3019	6.3008	290	11.4201	11.4168	9 ³ / ₄	42	1 ¹ / ₄
W234	170	6.6957	6.6946	310	12.2076	12.2042	5 ³ / ₈	21	1 ³ / ₈
D234	170	6.6957	6.6946	310	12.2076	12.2042	10 ³ / ₄	42	1 ³ / ₈
W236	180	7.0895	7.0883	320	12.6013	12.5978	5 ⁷ / ₈	22	1 ³ / ₈
S240	200	7.8771	7.8758	340	13.3888	13.3852	4 ³ / ₄	24	1 ³ / ₈
SW240	200	7.8771	7.8758	340	13.3888	13.3852	6 ³ / ₈	24	1 ³ / ₈
SW244	220	8.6646	8.6633	380	14.9637	14.9599	6 ⁷ / ₈	26	1 ³ / ₈

There are two holes diametrically opposite, in the outer race of every bearing listed in the table above. All holes are in the center of the race except in bearings 207 and N-306 where the hole is off center 1/64" toward the chamfered end. There are no holes in the inner races.

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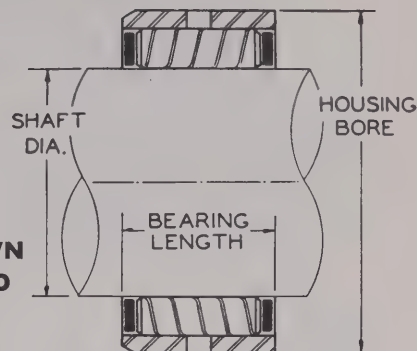
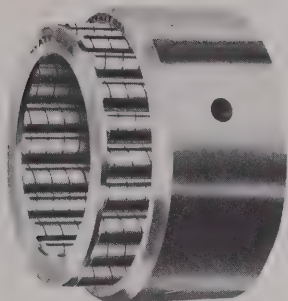
HYATT ROLLER BEARINGS

SOLID OUTER RACES — NO INNER RACES WOUND ROLLERS

C200 and C300 SERIES

Prefix C indicates solid race type bearings without inner races.

WOUND ROLLER TYPE BEARINGS SHOWN
ON THIS PAGE ARE BEING SUPERSEDED
BY 99,000 SERIES, PAGE 98.

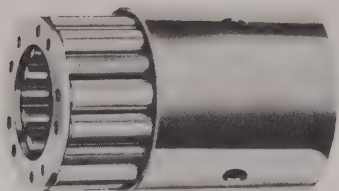


Bearing No.	SHAFT DIAMETER		HOUSING BORE		Bearing Lgth.	ROLLERS			
	Nominal Inches	Shaft Limits Inner Race Omitted	Mm	Housing Bore Limits		No.	Dia.		
C305	1 1/4	1.2500	1.2495	62	2.4419	2.4409	1 1/8	11	7/16
SC405	1 3/8	1.3750	1.3744	72	2.8357	2.8346	1 5/16	10	9/16
C206	1 1/2	1.5000	1.4994	62	2.4419	2.4409	1 3/8	17	5/16
CW206	1 1/2	1.5000	1.4994	62	2.4419	2.4409	1 3/8	17	5/16
C306	1 1/2	1.5000	1.4994	72	2.8357	2.8346	1 5/8	12	7/8
NC306	1 1/2	1.5000	1.4994	72	2.8357	2.8346	1 5/8	12	7/8
SC406	1 5/8	1.6250	1.6244	80	3.1508	3.1496	1 3/4	12	9/16
C207	1 3/4	1.7499	1.7493	72	2.8357	2.8346	1 5/8	17	3/4
CW207	1 3/4	1.7499	1.7493	72	2.8357	2.8346	1 5/8	17	3/4
C307	1 3/4	1.7499	1.7493	80	3.1508	3.1496	1 3/4	13	7/8
C208	2	1.9999	1.9992	80	3.1508	3.1496	1	19	3/8
CW208	2	1.9999	1.9992	80	3.1508	3.1496	1 3/8	19	3/8
C308	2	1.9999	1.9992	90	3.5446	3.5432	1 1/8	14	9/16
C209	2 1/16	2.1874	2.1867	85	3.3478	3.3465	1 1/8	20	3/8
CW209	2 1/16	2.1874	2.1867	85	3.3478	3.3465	1 1/8	20	3/8
C309	2 1/4	2.2499	2.2492	100	3.9384	3.9369	1 1/8	14	5/8
C210	2 3/8	2.3748	2.3741	90	3.5446	3.5432	1 1/4	22	3/8
CW210	2 3/8	2.3748	2.3741	90	3.5446	3.5432	1 3/4	22	3/8
CD210	2 3/8	2.3748	2.3741	90	3.5446	3.5432	3 1/2	44	3/8
C310	2 1/2	2.4998	2.4990	110	4.3322	4.3306	1 3/4	14	1 1/16
C211	2 5/8	2.6248	2.6240	100	3.9384	3.9369	1 5/8	21	7/16
CW211	2 5/8	2.6248	2.6240	100	3.9384	3.9369	1 5/8	21	7/16
CD211	2 5/8	2.6248	2.6240	100	3.9384	3.9369	3 5/8	42	7/16
C311	2 3/4	2.7498	2.7490	120	4.7260	4.7243	1 15/16	15	1 1/16
C212	2 7/8	2.8748	2.8740	110	4.3322	4.3306	1 7/8	20	1 1/2
CW212	2 7/8	2.8748	2.8740	110	4.3322	4.3306	1 15/16	20	1 1/2
CD212	2 7/8	2.8748	2.8740	110	4.3322	4.3306	3 7/8	40	1 1/2
MC312	3	2.9998	2.9990	130	5.1197	5.1179	2 1/8	15	3/4
C213	3 1/8	3.1248	3.1239	120	4.7260	4.7243	1 1/2	22	1 1/2
CW213	3 1/8	3.1248	3.1239	120	4.7260	4.7243	2 1/8	22	1 1/2
CD213	3 1/8	3.1248	3.1239	120	4.7260	4.7243	4 1/2	44	1 1/2
MC313	3 1/4	3.2497	3.2488	140	5.5135	5.5116	2 5/8	15	1 3/8
C214	3 5/16	3.3122	3.3113	125	4.9229	4.9212	1 5/8	23	1 1/2
CW214	3 5/16	3.3122	3.3113	125	4.9229	4.9212	2 3/8	23	1 1/2
CD214	3 5/16	3.3122	3.3113	125	4.9229	4.9212	4 3/4	46	1 1/2
MC314	3 1/2	3.4997	3.4988	150	5.9073	5.9053	2 1/2	15	1 3/8
C215	3 1/2	3.4997	3.4988	130	5.1197	5.1179	1 3/4	24	1 1/2
CW215	3 1/2	3.4997	3.4988	130	5.1197	5.1179	2 5/8	24	1 1/2
CD215	3 1/2	3.4997	3.4988	130	5.1197	5.1179	5 1/4	48	1 1/2
MC315	3 3/4	3.7497	3.7488	160	6.3011	6.2990	2 11/16	15	1 7/8
C216	3 3/4	3.7497	3.7488	140	5.5135	5.5116	1 13/16	23	9/16
CW216	3 3/4	3.7497	3.7488	140	5.5135	5.5116	2 5/8	23	9/16
CD216	3 3/4	3.7497	3.7488	140	5.5135	5.5116	5 1/4	46	9/16
MC316	4	3.9996	3.9986	170	6.6948	6.6926	2 11/16	15	1

Bearing No.	SHAFT DIAMETER			HOUSING BORE			Bearing Lgth.	ROLLERS	
	Nominal Inches	Shaft Limits Inner Race Omitted		Mm	Housing Bore Limits			No.	Dia.
C217	4	3.9996	3.9986	150	5.9073	5.9053	1 ¹⁵ / ₁₆	22	5/8
CW217	4	3.9996	3.9986	150	5.9073	5.9053	2 ³ / ₄	22	5/8
CD217	4	3.9996	3.9986	150	5.9073	5.9053	5 ¹ / ₂	44	5/8
MC317	4 ¹ / ₄	4.2496	4.2486	180	7.0886	7.0863	2 ⁷ / ₈	16	1
C218	4 ¹ / ₄	4.2496	4.2486	160	6.3011	6.2990	2 ¹ / ₁₆	22	1 ¹ / ₁₆
CW218	4 ¹ / ₄	4.2496	4.2486	160	6.3011	6.2990	2 ¹³ / ₁₆	22	1 ¹ / ₁₆
CD218	4 ¹ / ₄	4.2496	4.2486	160	6.3011	6.2990	5 ⁵ / ₈	44	1 ¹ / ₁₆
C318	4 ¹ / ₂	4.4996	4.4986	190	7.4824	7.4800	3	16	1 ¹ / ₁₆
C219	4 ¹ / ₂	4.4996	4.4986	170	6.6948	6.6926	2 ³ / ₁₆	21	3/4
CW219	4 ¹ / ₂	4.4996	4.4986	170	6.6948	6.6926	3	21	3/4
CD219	4 ¹ / ₂	4.4996	4.4986	170	6.6948	6.6926	6	42	3/4
MC319	4 ³ / ₄	4.7495	4.7485	200	7.8762	7.8737	3 ¹ / ₁₆	16	1 ¹ / ₈
C220	4 ³ / ₄	4.7495	4.7485	180	7.0886	7.0863	2 ⁵ / ₁₆	22	3/4
CW220	4 ³ / ₄	4.7495	4.7485	180	7.0886	7.0863	3 ³ / ₄	22	3/4
CD220	4 ³ / ₄	4.7495	4.7485	180	7.0886	7.0863	6 ¹ / ₂	44	3/4
C320	5	4.9995	4.9984	215	8.4649	8.4643	3 ³ / ₄	15	1 ¹ / ₄
C222	5 ¹ / ₄	5.2495	5.2484	200	7.8762	7.8737	2 ⁹ / ₁₆	21	7/8
CW222	5 ¹ / ₄	5.2495	5.2484	200	7.8762	7.8737	3 ¹ / ₂	21	7/8
CD222	5 ¹ / ₄	5.2495	5.2484	200	7.8762	7.8737	7	42	7/8
C322	5 ¹ / ₂	5.4994	5.4983	240	9.4512	9.4484	3 ³ / ₄	15	1 ³ / ₈
MC322	5 ¹ / ₂	5.4994	5.4983	240	9.4512	9.4484	3 ³ / ₈	15	1 ³ / ₈
C224	5 ⁵ / ₈	5.6244	5.6233	215	8.4669	8.4643	2 ¹³ / ₁₆	21	1 ⁵ / ₁₆
CW224	5 ⁵ / ₈	5.6244	5.6233	215	8.4669	8.4643	3 ⁷ / ₈	21	1 ⁵ / ₁₆
CD224	5 ⁵ / ₈	5.6244	5.6233	215	8.4669	8.4643	7 ³ / ₄	42	1 ⁵ / ₁₆
C324	6 ¹ / ₁₆	6.0619	6.0607	260	10.2388	10.2358	4 ¹ / ₈	16	1 ³ / ₈
C226	6 ¹ / ₁₆	6.0619	6.0607	230	9.0574	9.0547	3 ¹ / ₈	21	1
CW226	6 ¹ / ₁₆	6.0619	6.0607	230	9.0574	9.0547	4 ¹ / ₄	21	1
CD226	6 ¹ / ₁₆	6.0619	6.0607	230	9.0574	9.0547	8 ¹ / ₂	42	1
CSW226	6	5.9994	5.9982	215	8.4669	8.4643	4 ⁷ / ₈	27	3/4
CSD226	6	5.9994	5.9982	215	8.4669	8.4643	9 ³ / ₄	54	3/4
C326	6 ³ / ₁₆	6.5618	6.5606	280	11.0263	11.0231	4 ³ / ₈	16	1 ¹ / ₂
C228	6 ⁵ / ₈	6.6243	6.6231	250	9.8450	9.8421	3 ¹ / ₄	22	1 ¹ / ₁₆
CW228	6 ⁵ / ₈	6.6243	6.6231	250	9.8450	9.8421	4 ³ / ₄	22	1 ¹ / ₁₆
CD228	6 ⁵ / ₈	6.6243	6.6231	250	9.8450	9.8421	9 ¹ / ₂	44	1 ¹ / ₁₆
C230	7 ¹ / ₁₆	7.0617	7.0604	270	10.6326	10.6295	3 ¹ / ₂	21	1 ³ / ₁₆
CW230	7 ¹ / ₁₆	7.0617	7.0604	270	10.6326	10.6295	4 ³ / ₄	21	1 ³ / ₁₆
C232	7 ⁵ / ₈	7.6242	7.6229	290	11.4201	11.4168	3 ⁷ / ₈	21	1 ¹ / ₄
CW232	7 ⁵ / ₈	7.6242	7.6229	290	11.4201	11.4168	4 ³ / ₄	21	1 ¹ / ₄
CD232	7 ⁵ / ₈	7.6242	7.6229	290	11.4201	11.4168	9 ³ / ₄	42	1 ¹ / ₄
CW234	8 ¹ / ₁₆	8.0616	8.0602	310	12.2076	12.2042	5 ³ / ₈	21	1 ³ / ₈
CD234	8 ¹ / ₁₆	8.0616	8.0602	310	12.2076	12.2042	10 ³ / ₄	42	1 ³ / ₈
CW236	8 ¹⁵ / ₃₂	8.4677	8.4663	320	12.6013	12.5978	5 ⁷ / ₈	22	1 ³ / ₈
CS240	9 ¹ / ₄	9.2489	9.2474	340	13.3888	13.3852	4 ³ / ₄	24	1 ³ / ₈
CSW240	9 ¹ / ₄	9.2489	9.2474	340	13.3888	13.3852	6 ⁷ / ₈	24	1 ³ / ₈
CSW244	10 ⁷ / ₁₆	10.4363	10.4347	380	14.9637	14.9599	6 ⁷ / ₈	26	1 ³ / ₈

There are two holes diametrically opposite, in the outer race of every bearing listed in the table above. All holes are in the center of the race except in bearings 207 and N-306 where the hole is off center 1/64" toward the chamfered end.

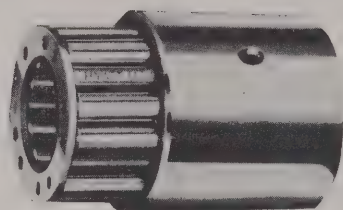
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HYATT ROLLER BEARINGS**SOLID ROLLER BEARINGS****90,000 SERIES****HY-ROLL TYPE****HP SERIES****Solid Roller Assemblies and Split Outer Races**

Bearing No.	Shaft Diameter	Outside Diameter	Length	Roller Diameter
HP-93120	1 1/2	1 5/16	1 1/4	3/16
HP-93124	1 1/2	1 5/16	1 1/2	3/16
HP-93128	1 1/2	1 5/16	1 3/4	3/16
HP-94112	1 1/2	1 1/16	1 3/4	3/16
HP-94116	1 1/2	1 1/16	2	3/16
HP-94124	1 1/2	1 1/16	1 1/2	3/16
HP-94128	1 1/2	1 1/16	1 3/4	3/16
HP-94132	1 1/2	1 1/16	2	3/16
HP-93212	5/8	1 1/16	3/4	3/16
HP-93216	5/8	1 1/16	1	3/16
HP-93220	5/8	1 1/16	1 1/4	3/16
HP-93224	5/8	1 1/16	1 1/2	3/16
HP-93228	5/8	1 1/16	1 3/4	3/16
HP-93232	5/8	1 1/16	2	3/16
HP-94216	5/8	1 1/16	1	3/16
HP-94220	5/8	1 1/16	1 1/4	3/16
HP-94224	5/8	1 1/16	1 1/2	3/16
HP-94228	5/8	1 1/16	1 3/4	3/16
HP-94232	5/8	1 1/16	2	3/16
HP-93312	3/4	1 3/16	3/4	3/16
HP-93316	3/4	1 3/16	1	3/16
HP-93320	3/4	1 3/16	1 1/4	3/16
HP-93324	3/4	1 3/16	1 1/2	3/16
HP-93328	3/4	1 3/16	1 3/4	3/16
HP-93332	3/4	1 3/16	2	3/16
HP-94324	3/4	1 5/16	1 1/2	3/16
HP-94328	3/4	1 5/16	1 3/4	3/16
HP-94332	3/4	1 5/16	2	3/16
HP-94340	3/4	1 5/16	2 1/2	3/16
HP-95316	3/4	1 7/16	1 1/2	3/16
HP-95324	3/4	1 7/16	2	3/16
HP-95332	3/4	1 7/16	2 1/2	3/16
HP-95340	3/4	1 7/16	2 1/2	3/16
HP-93424	7/8	1 9/16	1 1/2	3/16
HP-93428	7/8	1 9/16	1 3/4	3/16
HP-93432	7/8	1 9/16	2	3/16
HP-94416	7/8	1 7/16	1	3/16
HP-94424	7/8	1 7/16	1 1/2	3/16
HP-94428	7/8	1 7/16	1 3/4	3/16
HP-94432	7/8	1 7/16	2	3/16
HP-94436	7/8	1 7/16	2 1/4	3/16
HP-94440	7/8	1 7/16	2 1/2	3/16
HP-95416	7/8	1 9/16	1	3/16
HP-95424	7/8	1 9/16	1 1/2	3/16
HP-95432	7/8	1 9/16	2	3/16
HP-95440	7/8	1 9/16	2 1/2	3/16
HP-93516	1	1 7/16	1	3/16
HP-93524	1	1 7/16	1 1/2	3/16
HP-93528	1	1 7/16	1 3/4	3/16
HP-93532	1	1 7/16	2	3/16
HP-93540	1	1 7/16	2 1/2	3/16
HP-94516	1	1 9/16	1	3/16
HP-94518	1	1 9/16	1 1/6	3/16
HP-94524	1	1 9/16	1 1/2	3/16
HP-94532	1	1 9/16	2	3/16
HP-94540	1	1 9/16	2 1/2	3/16
HP-95528	1	1 3/4	1 3/4	3/16
HP-95532	1	1 3/4	2	3/16
HP-95540	1	1 3/4	2 1/2	3/16
HP-93616	1 1/8	1 9/16	1	3/16
HP-93624	1 1/8	1 9/16	1 1/2	3/16
HP-93632	1 1/8	1 9/16	2	3/16
HP-94616	1 1/8	1 3/4	1	3/16
HP-94628	1 1/8	1 3/4	1 3/4	3/16
HP-94632	1 1/8	1 3/4	2	3/16
HP-94640	1 1/8	1 3/4	2 1/2	3/16
HP-95632	1 1/8	1 7/8	2	3/16
HP-95640	1 1/8	1 7/8	2 1/2	3/16

HP SERIES (Continued)

Bearing No.	Shaft Diameter	Outside Diameter	Length	Roller Diameter
HP-93716	1 1/4	1 3/4	1	3/16
HP-93728	1 1/4	1 3/4	1 3/4	3/16
HP-94732	1 1/4	1 1/8	2	3/16
HP-94740	1 1/4	1 1/8	2 1/2	3/16
HP-95724	1 1/4	2	1 1/2	5/16
HP-95732	1 1/4	2	2	5/16
HP-95740	1 1/4	2	2 1/2	5/16
HP-95840	1 3/8	2 1/8	2 1/2	5/16
HP-95920	1 1/2	2 1/4	1 1/4	5/16
HP-95932	1 1/2	2 1/4	2	5/16
HP-95940	1 1/2	2 1/4	2 1/2	5/16

S SERIES SOLID ROLLER BEARINGS**Solid Roller
Assemblies and
Solid Outer Races**

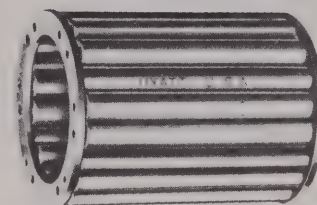
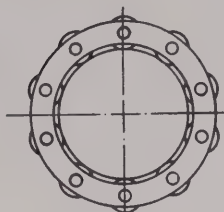
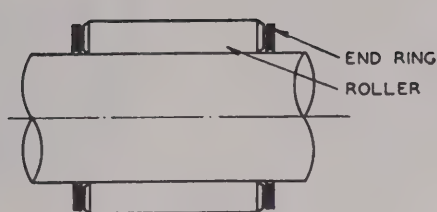
Bearing No.	Shaft Diameter	Outside Diameter	Length	Roller Diameter
S-94116	1/2	1 1/16	1	1/4
S-93216	5/8	1 3/16	1	3/16
S-94216	5/8	1 5/16	1	3/16
S-94224	5/8	1 5/16	1 1/2	3/16
S-93312	3/4	1 5/16	3/4	3/16
S-93314	3/4	1 5/16	1	3/16
S-93316	3/4	1 5/16	1 1/2	3/16
S-93324	3/4	1 5/16	1 1/2	3/16
S-95316	3/4	1 9/16	1	3/16
S-95324	3/4	1 9/16	1 1/2	3/16
S-95332	3/4	1 9/16	2	3/16
S-95340	3/4	1 9/16	2 1/2	3/16
S-94416	7/8	1 9/16	1	3/16
S-94424	7/8	1 9/16	1 1/2	3/16
S-94432	7/8	1 9/16	2	3/16
S-94440	7/8	1 9/16	2 1/2	3/16
S-95416	7/8	1 3/4	1	3/16
S-93516	1	1 9/16	1	3/16
S-93524	1	1 9/16	1 1/2	3/16
S-93532	1	1 9/16	2	3/16
S-93540	1	1 9/16	2 1/2	3/16
S-94516	1	1 3/4	1	3/16
S-93616	1 1/8	1 3/4	1	3/16
S-94616	1 1/8	1 7/8	1	3/16
S-95640	1 1/8	2	2 1/2	3/16
S-93716	1 1/4	1 7/8	1	3/16
S-94716	1 1/4	2	1	3/16
S-94720	1 1/4	2	1 1/4	3/16
S-94726	1 1/4	2	1 3/4	3/16
S-94740	1 1/4	2	2 1/2	3/16
S-93816	1 3/8	2	1	3/16
S-94826	1 3/8	2 1/8	1 5/8	3/16
S-94920	1 1/2	2 1/4	1 1/4	3/16
S-95928	1 1/2	2 3/8	1 3/4	3/16

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HYATT ROLLER BEARINGS

JUNIOR SOLID ROLLER ASSEMBLIES

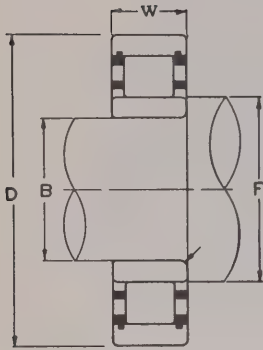
90,000 SERIES



Bearing No.	Shaft Diameter	Outside Diameter	Length	Roller Diameter
93112	1/2	7/8	3/4	3/16
93116	1/2	7/8	1	3/16
93120	1/2	7/8	1 1/4	3/16
93124	1/2	7/8	1 1/2	3/16
93128	1/2	7/8	1 3/4	3/16
94112	1	1	3/4	1/4
94116	1	1	1	1/4
94124	1	1	1 1/2	1/4
94128	1	1	1 3/4	1/4
94132	1	1	2	1/4
93212	5/8	1	3/4	5/16
93214	5/8	1	7/8	5/16
93216	5/8	1	1	5/16
93218	5/8	1	1 1/8	5/16
93220	5/8	1	1 1/4	5/16
93224	5/8	1	1 1/2	5/16
93228	5/8	1	1 3/4	5/16
93232	5/8	1	2	5/16
94216	1 1/8	1 1/8	1	1/4
94220	1 1/8	1 1/8	1 1/4	1/4
94224	1 1/8	1 1/8	1 1/2	1/4
94228	1 1/8	1 1/8	1 3/4	1/4
94232	1 1/8	1 1/8	2	1/4
93312	3/4	1 1/8	3/4	5/16
93314	3/4	1 1/8	7/8	5/16
93316	3/4	1 1/8	1	5/16
93320	3/4	1 1/8	1 1/4	5/16
93322	3/4	1 1/8	1 3/8	5/16
93324	3/4	1 1/8	1 1/2	5/16
93326	3/4	1 1/8	1 5/8	5/16
93328	3/4	1 1/8	1 3/4	5/16
93332	3/4	1 1/8	2	5/16
94316	1 1/4	1 1/4	1 1/8	1/4
94318	1 1/4	1 1/4	1 1/4	1/4
94320	1 1/4	1 1/4	1 1/2	1/4
94322	1 1/4	1 1/4	1 3/8	1/4
94324	1 1/4	1 1/4	1 1/2	1/4
94328	1 1/4	1 1/4	1 3/4	1/4
94332	1 1/4	1 1/4	2	1/4
94338	1 1/4	1 1/4	2 3/8	1/4
94340	1 1/4	1 1/4	2 1/2	1/4
95316	1 3/8	1 3/8	1	5/16
95324	1 3/8	1 3/8	1 1/2	5/16
95332	1 3/8	1 3/8	2	5/16
95340	1 3/8	1 3/8	2 1/2	5/16
93412	7/8	1 1/4	3/4	3/16
93416	7/8	1 1/4	1	3/16
93420	7/8	1 1/4	1 1/4	3/16
93424	7/8	1 1/4	1 1/2	3/16
93428	7/8	1 1/4	1 3/4	3/16
93432	7/8	1 1/4	2	3/16
93436	7/8	1 1/4	2 1/4	3/16
94412	1 1/8	1 3/4	3/4	1/4
94416	1 1/8	1 3/4	1	1/4
94420	1 1/8	1 3/4	1 1/4	1/4
94422	1 1/8	1 3/4	1 1/2	1/4
94424	1 1/8	1 3/4	1 3/8	1/4
94426	1 1/8	1 3/4	1 1/2	1/4
94428	1 1/8	1 3/4	1 5/8	1/4
94432	1 1/8	1 3/4	2	1/4
94436	1 1/8	1 3/4	2 1/4	1/4
94440	1 1/8	1 3/4	2 1/2	1/4
95416	1 1/2	1 1/2	1	5/16
95424	1 1/2	1 1/2	1 1/2	5/16
95428	1 1/2	1 1/2	1 3/4	5/16
95432	1 1/2	1 1/2	2	5/16
95440	1 1/2	1 1/2	2 1/2	5/16

Bearing No.	Shaft Diameter	Outside Diameter	Length	Roller Diameter
93516	1	1 3/8	1	3/16
93524	1	1 3/8	1 1/2	3/16
93528	1	1 3/8	1 3/4	3/16
93532	1	1 3/8	2	3/16
93540	1	1 3/8	2 1/2	3/16
94516	1	1 1/2	1	1/4
94518	1	1 1/2	1 1/8	1/4
94520	1	1 1/2	1 1/4	1/4
94524	1	1 1/2	1 1/2	1/4
94526	1	1 1/2	1 3/8	1/4
94528	1	1 1/2	1 3/4	1/4
94532	1	1 1/2	2	1/4
94536	1	1 1/2	2 1/4	1/4
94540	1	1 1/2	2 1/2	1/4
95520	1	1 5/8	1 1/4	5/16
95524	1	1 5/8	1 1/2	5/16
95528	1	1 5/8	1 3/4	5/16
95532	1	1 5/8	2	5/16
95540	1	1 5/8	2 1/2	5/16
93616	1 1/8	1 1/2	1	3/16
93624	1 1/8	1 1/2	1 1/2	3/16
93628	1 1/8	1 1/2	1 3/4	3/16
93632	1 1/8	1 1/2	2	3/16
94612	1 1/8	1 1/8	3/4	1/4
94616	1 1/8	1 1/8	1	1/4
94620	1 1/8	1 1/8	1 1/4	1/4
94622	1 1/8	1 1/8	1 3/8	1/4
94624	1 1/8	1 1/8	1 1/2	1/4
94626	1 1/8	1 1/8	1 5/8	1/4
94628	1 1/8	1 1/8	1 3/4	1/4
94632	1 1/8	1 1/8	2	1/4
94636	1 1/8	1 1/8	2 1/4	1/4
94640	1 1/8	1 1/8	2 1/2	1/4
95632	1 1/8	1 3/4	2 1/4	5/16
95636	1 1/8	1 3/4	2 1/2	5/16
95640	1 1/8	1 3/4	2 3/4	5/16
93716	1 1/4	1 5/8	1	3/16
93728	1 1/4	1 5/8	1 3/4	3/16
94712	1 1/4	1 3/4	1	1/4
94716	1 1/4	1 3/4	1 1/4	1/4
94720	1 1/4	1 3/4	1 1/2	1/4
94724	1 1/4	1 3/4	1 3/8	1/4
94726	1 1/4	1 3/4	1 1/2	1/4
94732	1 1/4	1 3/4	2	1/4
94736	1 1/4	1 3/4	2 1/4	1/4
94740	1 1/4	1 3/4	2 1/2	1/4
95716	1 1/4	1 7/8	1	5/16
95718	1 1/4	1 7/8	1 1/8	5/16
95724	1 1/4	1 7/8	1 1/2	5/16
95732	1 1/4	1 7/8	2	5/16
95740	1 1/4	1 7/8	2 1/2	5/16
93816	1 3/8	1 3/4	1	3/16
93824	1 3/8	1 3/4	1 1/2	3/16
93828	1 3/8	1 3/4	1 3/4	3/16
94820	1 3/8	1 3/8	1 1/4	1/4
94826	1 3/8	1 3/8	1 3/8	1/4
94828	1 3/8	1 3/8	1 1/2	1/4
95828	1 3/8	1 3/8	2	1/4
95840	1 3/8	1 3/8	2 1/2	1/4
94916	1 1/2	2	1	1/4
94920	1 1/2	2	1 1/4	1/4
94932	1 1/2	2	2	1/4
95912	1 1/2	2 1/8	3/4	5/16
95920	1 1/2	2 1/8	1 1/4	5/16
95928	1 1/2	2 1/8	1 3/4	5/16
95932	1 1/2	2 1/8	2	5/16
95940	1 1/2	2 1/8	2 1/2	5/16

NEED HELP ON BEARINGS—CALL US

HYATT ROLLER BEARINGS**HY-ROLL SOLID ROLLER TYPE**

A---TS Type

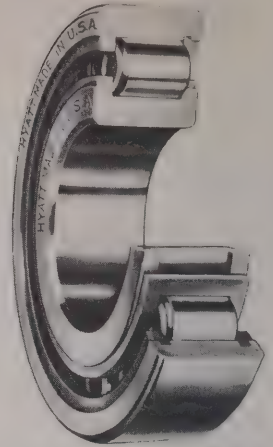
Hyatt HY-ROLL Bearings are supplied in various styles of internal construction with modified combinations of inner and outer races, roller assemblies, and retainers.

Prefix letters are used to indicate inner race style.

Suffix letters are used to indicate outer race style.

Roller assembly symbols are prefixes when contained with inner race and suffixes when contained with outer race.

The dimensional tables shown on this page are for the basic A-1200-TS and A-1300-TS Series design, but in all styles of construction the basic 1200 and 1300 numbers and sizes remain the same.

**1200 SERIES**

Bearing No.	INNER RACE I.D. (B)		OUTER RACE O.D. (D)		WIDTH (W)		(F)
	Mm	Inches	Mm	Inches	Mm	Inches	Inches
A-1203-TS	17	.6693	40	1.5748	12	.4724	.872
A-1204-TS	20	.7874	47	1.8504	14	.5512	1.108
A-1205-TS	25	.9843	52	2.0472	15	.5906	1.266
A-1206-TS	30	1.1811	62	2.4409	16	.6299	1.499
A-1207-TS	35	1.3780	72	2.8346	17	.6693	1.732
A-1208-TS	40	1.5748	80	3.1496	18	.7087	1.966
A-1209-TS	45	1.7717	85	3.3465	19	.7480	2.186
A-1210-TS	50	1.9685	90	3.5433	20	.7874	2.381
A-1211-TS	55	2.1654	100	3.9370	21	.8268	2.634
A-1212-TS	60	2.3622	110	4.3307	22	.8661	2.850
A-1213-TS	65	2.5591	120	4.7244	23	.9055	3.167
A-1214-TS	70	2.7559	125	4.9213	24	.9449	3.338
A-1215-TS	75	2.9528	130	5.1181	25	.9843	3.505
A-1216-TS	80	3.1496	140	5.5118	26	1.0236	3.752
A-1217-TS	85	3.3465	150	5.9055	28	1.1024	4.016
A-1218-TS	90	3.5433	160	6.2992	30	1.1811	4.221
A-1219-TS	95	3.7402	170	6.6929	32	1.2598	4.470
A-1220-TS	100	3.9370	180	7.0866	34	1.3386	4.764
A-1221-TS	105	4.1339	190	7.4803	36	1.4173	4.981
A-1222-TS	110	4.3307	200	7.8740	38	1.4961	5.234
A-1224-TS	120	4.7244	215	8.4646	40	1.5748	5.714
A-1226-TS	130	5.1181	230	9.0551	40	1.5748	6.101
A-1228-TS	140	5.5118	250	9.8425	42	1.6535	6.632
A-1230-TS	150	5.9055	270	10.6299	45	1.7717	7.147

1300 SERIES

A-1303-TS	17	.6693	47	1.8504	14	.5512	.890
A-1304-TS	20	.7874	52	2.0472	15	.5906	1.101
A-1305-TS	25	.9843	62	2.4409	17	.6693	1.338
A-1306-TS	30	1.1811	72	2.8346	19	.7480	1.602
A-1307-TS	35	1.3780	80	3.1496	21	.8268	1.845
A-1308-TS	40	1.5748	90	3.5433	23	.9055	2.059
A-1309-TS	45	1.7717	100	3.9370	25	.9843	2.338
A-1310-TS	50	1.9685	110	4.3307	27	1.0630	2.565
A-1311-TS	55	2.1654	120	4.7244	29	1.1417	2.813
A-1312-TS	60	2.3622	130	5.1181	31	1.2205	3.054
A-1313-TS	65	2.5591	140	5.5118	33	1.2992	3.295
A-1314-TS	70	2.7559	150	5.9055	35	1.3780	3.512
A-1315-TS	75	2.9528	160	6.2992	37	1.4567	3.777
A-1316-TS	80	3.1496	170	6.6929	39	1.5354	4.002
A-1317-TS	85	3.3465	180	7.0866	41	1.6142	4.273
A-1318-TS	90	3.5433	190	7.4803	43	1.6929	4.490
A-1319-TS	95	3.7402	200	7.8740	45	1.7717	4.810
A-1320-TS	100	3.9370	215	8.4646	47	1.8504	5.125
A-1321-TS	105	4.1339	225	8.8583	49	1.9291	5.361
A-1322-TS	110	4.3307	240	9.4488	50	1.9685	5.718
A-1324-TS	120	4.7244	260	10.2362	55	2.1654	6.182
A-1326-TS	130	5.1181	280	11.0236	58	2.2835	6.670

A---WB
TypeR---YS
TypeR---WB
Type

BU---Z



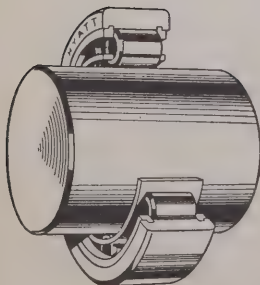
BU---L



U---TS

U---TM
Same as U-TS
except has full
complement of
rollers

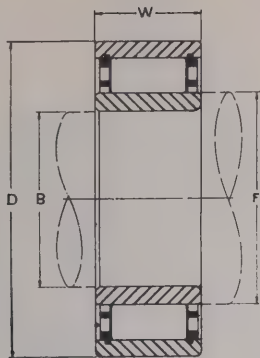
U---YS

U---YM
Same as U-YS
except has full
complement of
rollers

Separable inner race style bearings may be used without the inner races, with the rollers riding directly on the shaft.

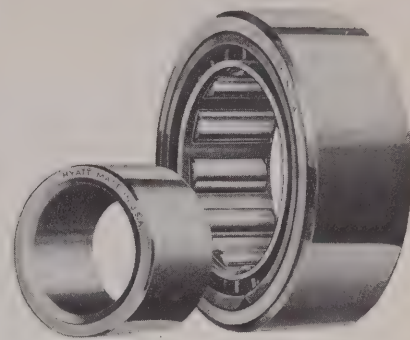
Omit the prefix letter from the complete bearing number to denote bearing less inner race. When inner races are not used, the shaft must be hardened to Rockwell C-60-64.

HYATT ROLLER BEARINGS HY-ROLL—WIDE TYPE METRIC



Overall dimensions are the same as double row ball bearings.

Omit the prefix letter from the complete bearing number to denote bearing less inner race. When inner races are not used, the shaft must be hardened to Rockwell C-60-64.



5200 SERIES

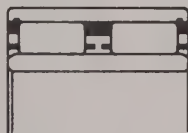
Bearing Number	Inner Race I.D. (B)		Outer Race O.D. (D)		WIDTH (W)		(F)
	Mm	Inches	Mm	Inches	Inches	Inches	
A-5203-TS	17	.6693	40	1.5748	$1\frac{1}{16}$	.6875	.8718
A-5204-TS	20	.7874	47	1.8504	$1\frac{3}{16}$	.8125	1.0000
A-5205-TS	25	.9843	52	2.0472	$1\frac{3}{16}$	.8125	1.2666
A-5206-TS	30	1.1811	62	2.4409	$1\frac{3}{16}$	.9375	1.4999
A-5207-TS	35	1.3780	72	2.8346	$1\frac{1}{2}$	1.0625	1.7321
A-5208-TS	40	1.5748	80	3.1496	$1\frac{3}{8}$	1.1875	1.9666
A-5209-TS	45	1.7717	85	3.3465	$1\frac{3}{8}$	1.1875	2.1866
A-5210-TS	50	1.9685	90	3.5433	$1\frac{3}{8}$	1.1875	2.3811
A-5211-TS	55	2.1654	100	3.9370	$1\frac{3}{8}$	1.3125	2.6344
A-5212-TS	60	2.3622	110	4.3307	$1\frac{3}{8}$	1.4375	2.8500
A-5213-TS	65	2.5591	120	4.7244	$1\frac{1}{2}$	1.5000	3.1671
A-5214-TS	70	2.7559	125	4.9213	$1\frac{1}{2}$	1.5625	3.3381
A-5215-TS	75	2.9528	130	5.1181	$1\frac{1}{2}$	1.6250	3.5050
A-5216-TS	80	3.1496	140	5.5118	$1\frac{3}{4}$	1.7500	3.7521
A-5217-TS	85	3.3465	150	5.9055	$1\frac{1}{2}$	1.9375	4.0166
A-5218-TS	90	3.5433	160	6.2992	$2\frac{1}{16}$	2.0625	4.2211
A-5219-TS	95	3.7402	170	6.6929	$2\frac{1}{16}$	2.1875	4.4700
A-5220-TS	100	3.9370	180	7.0866	$2\frac{3}{8}$	2.3750	4.7644
A-5221-TS	105	4.1339	190	7.4803	$2\frac{1}{2}$	2.5625	4.9811
A-5222-TS	110	4.3307	200	7.8740	$2\frac{3}{4}$	2.7500	5.2344
A-5224-TS	120	4.7244	215	8.4646	3	3.0000	5.7144
A-5226-TS	130	5.1181	230	9.0551	$3\frac{1}{8}$	3.1250	6.1011
A-5228-TS	140	5.5118	250	9.8425	$3\frac{1}{4}$	3.2500	6.6321
A-5230-TS	150	5.9055	270	10.6299	$3\frac{3}{8}$	3.5000	7.1471
A-5232-WB	160	6.2992	290	11.4173	$3\frac{1}{2}$	3.8750	7.6231
A-5234-TS	170	6.6929	310	12.2047	$4\frac{1}{8}$	4.1250	8.0891
A-5236-TS	180	7.0866	320	12.5984	$4\frac{1}{4}$	4.2500	8.5151
A-5240-TS	200	7.8740	360	14.1732	$4\frac{3}{4}$	4.7500	9.5351

5300 SERIES

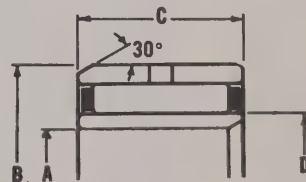
Bearing Number	I.D. (B) Inner Race		O.D. (D) Outer Race		WIDTH (W)		(F)
	Mm	Inches	Mm	Inches	Inches	Inches	
A-5304-TS	20	.7874	52	2.0472	$\frac{7}{8}$	.8750	1.1005
A-5305-TS	25	.9843	62	2.4409	$1\frac{1}{8}$	1.0000	1.3375
A-5306-TS	30	1.1811	72	2.8346	$1\frac{3}{16}$	1.1875	1.6016
A-5307-TS	35	1.3780	80	3.1496	$1\frac{3}{8}$	1.3750	1.8451
A-5308-TS	40	1.5748	90	3.5433	$1\frac{1}{2}$	1.4375	2.0891
A-5309-TS	45	1.7717	100	3.9370	$1\frac{5}{8}$	1.5625	2.3371
A-5310-TS	50	1.9685	110	4.3307	$1\frac{3}{4}$	1.7500	2.5651
A-5311-TS	55	2.1654	120	4.7244	$1\frac{7}{8}$	1.9375	2.8131
A-5312-TS	60	2.3622	130	5.1181	$2\frac{1}{8}$	2.1875	3.0541
A-5313-TS	65	2.5591	140	5.5118	$2\frac{1}{4}$	2.3125	3.2951
A-5314-TS	70	2.7559	150	5.9055	$2\frac{1}{2}$	2.5000	3.5115
A-5315-TS	75	2.9528	160	6.2992	$2\frac{3}{8}$	2.6875	3.7771
A-5316-TS	80	3.1496	170	6.6929	$2\frac{1}{2}$	2.6875	4.0011
A-5317-TS	85	3.3465	180	7.0866	$2\frac{3}{8}$	2.8750	4.2731
A-5318-TS	90	3.5433	190	7.4803	$2\frac{1}{2}$	2.8750	4.4901
A-5319-TS	95	3.7402	200	7.8740	$3\frac{1}{16}$	3.0625	4.8091
A-5320-TS	100	3.9370	215	8.4646	$3\frac{1}{4}$	3.2500	5.1251
A-5321-TS	105	4.1339	225	8.8583	$3\frac{1}{8}$	3.4375	5.3611
A-5322-TS	110	4.3307	240	9.4488	$3\frac{3}{8}$	3.6250	5.7181
A-5324-TS	120	4.7244	260	10.2362	$4\frac{1}{8}$	4.1250	6.1821

The dimensional tables shown above are for the basic A-5200-TS and A-5300-TS Series design, but in all styles of construction the basic 5200 and 5300 numbers and sizes remain the same. See preceding page.

DOUBLE ROW A-6200-TS Series

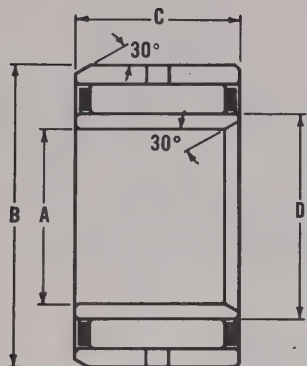


70,000 SERIES BRONZE END RING TYPE



Complete Bearing Number	INSIDE DIA. Inner Race		OUTSIDE DIA. Outer Race		Width	Out. Dia. Inner Race
	Mm	Inches	Mm	Inches	Inches	Inches
A-6205-TS	25	.9843	52	2.0472	1.6250	1.2662
A-6206-TS	30	1.1811	62	2.4410	1.875	1.498
A-6207-TS	35	1.3780	72	2.8347	2.125	1.731
A-6210-TS	50	1.9685	90	3.5433	2.375	2.380
A-6212-TS	60	2.3622	110	4.3307	2.875	2.849
A-6214-TS	70	2.7559	125	4.9213	3.125	3.337
A-6216-TS	80	3.1496	140	5.5118	3.500	3.751
A-6219-TS	95	3.7402	170	6.6929	4.375	4.469
A-6220-TS	100	3.9370	180	7.0866	4.750	4.764
A-6224-TS	120	4.7244	215	8.4646	6.000	5.714
A-6230-TS	150	5.9055	270	10.6299	7.000	7.147
A-6232-TS	160	6.2992	290	11.4173	7.750	7.623
A-6236-TS	180	7.0866	320	12.5984	8.500	8.515

Bearing Number	Bore A	Outside Diameter B	Width C	Max. Inner Race O.D. D	Roller Diameter
	Inches	Inches	Inches	Inches	Inches
75021	4.2500	7.0000	2.625	4.9955	.6250
75523	4.6250	7.6250	2.875	5.4952	.6250
76024	5.1250	8.250	3.000	5.9947	.6875
76525	5.5000	9.0000	3.125	6.4941	.7500
77026	6.0000	9.5000	3.250	6.9938	.7500
77528	6.5000	10.1250	3.500	7.4934	.8125
78030	6.8750	10.8750	3.750	7.9930	.8125
78532	7.3750	11.3750	4.000	8.4925	.8750
79034	7.7500	12.2500	4.250	8.9921	1.0000
710036	8.6250	13.3750	4.500	9.9914	1.0000
711040	9.5000	14.7500	5.000	10.9864	1.1250
712044	10.5000	16.0000	5.500	11.9897	1.2500
714052	12.2500	18.5000	6.500	13.9883	1.3750

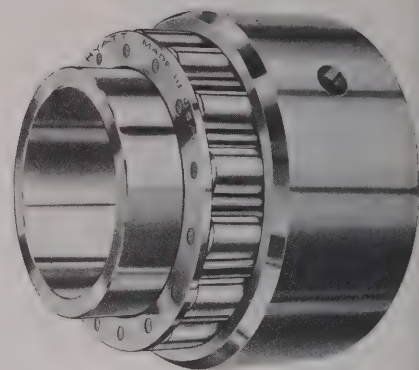
HYATT ROLLER BEARINGS**HY-ROLL SOLID ROLLER TYPE****99,200-99,300 SERIES**

99,200 and 99,300 Series Hy-Roll Bearings are three part separable bearings consisting of an inner race, outer race and roller assembly.

They are designed to be interchangeable with "200" and "300" Series wound roller type bearings and are recommended as a substitute when additional capacity is required.

Oil holes are located diametrically opposite on outer race center line except for holes marked on bearing N99306 and 99207. Here they are displaced $\frac{1}{64}$ " toward the chamfered end.

When a bearing is required without an inner race, the bearing number is prefixed with the letter "C".



Bearing Number	Maximum Bore Diameter		Minimum Outside Diameter		Maximum Width	Maximum Inner Race O.D.	Maximum Roller Diameter
	A		B		C	D	
	Mm	Inches	Mm	Inches	Inches	Inches	Inches
99305	25	.9843	62	2.4409	1.125	1.2492	.4375
99206	30	1.1811	62	2.4409	.812	1.4991	.3125
W99206	30	1.1811	62	2.4409	1.125	1.4991	.3125
*N99306	30	1.1811	72	2.8346	.937	1.4991	.5000
*99306	30	1.1811	72	2.8346	1.187	1.4991	.5000
99207	35	1.3780	72	2.8346	.937	1.7490	.3750
W99207	35	1.3780	72	2.8346	1.187	1.7490	.3750
99307	35	1.3780	80	3.1496	1.375	1.7490	.5000
99208	40	1.5748	80	3.1496	1.000	1.9988	.3750
W99208	40	1.5748	80	3.1496	1.375	1.9988	.3750
*99308	40	1.5748	90	3.5433	1.437	1.9988	.5625
99209	45	1.7717	85	3.3465	1.125	2.1862	.3750
W99209	45	1.7717	85	3.3465	1.562	2.1862	.3750
*99309	45	1.7717	100	3.9370	1.562	2.2487	.6250
99210	50	1.9685	90	3.5433	1.250	2.3735	.3750
W99210	50	1.9685	90	3.5433	1.750	2.3735	.3750
D99210	50	1.9685	90	3.5433	3.500	2.3735	.3750
*99310	50	1.9685	110	4.3307	1.750	2.4985	.6875
99211	55	2.1654	100	3.9370	1.312	2.6235	.4375
W99211	55	2.1654	100	3.9370	1.812	2.6235	.4375
D99211	55	2.1654	100	3.9370	3.625	2.6235	.4375
99311	55	2.1654	120	4.7244	1.937	2.7484	.6875
99212	60	2.3622	110	4.3307	1.437	2.8733	.5000
W99212	60	2.3622	110	4.3307	1.937	2.8733	.5000
D99212	60	2.3622	110	4.3307	3.875	2.8733	.5000
*M99312	60	2.3622	130	5.1181	2.125	2.9982	.7500
99213	65	2.5591	120	4.7244	1.500	3.1232	.5000
W99213	65	2.5591	120	4.7244	2.062	3.1232	.5000
D99213	65	2.5591	120	4.7244	4.125	3.1232	.5000
*M99313	65	2.5591	140	5.5118	2.312	3.2481	.8125
99214	70	2.7559	125	4.9213	1.625	3.3105	.5000
W99214	70	2.7559	125	4.9213	2.375	3.3105	.5000
D99214	70	2.7559	125	4.9213	4.750	3.3105	.5000
M99314	70	2.7559	150	5.9055	2.500	3.4979	.8750
99215	75	2.9528	130	5.1181	1.750	3.4979	.5000
W99215	75	2.9528	130	5.1181	2.625	3.4979	.5000
D99215	75	2.9528	130	5.1181	5.250	3.4979	.5000
*M99315	75	2.9528	160	6.2992	2.625	3.7478	.9375
99216	80	3.1496	140	5.5118	1.812	3.7478	.5625
W99216	80	3.1496	140	5.5118	2.625	3.7478	.5625
D99216	80	3.1496	140	5.5118	5.250	3.7478	.5625
*M99316	80	3.1496	170	6.6929	2.625	3.9976	1.0000
99217	85	3.3465	150	5.9055	1.937	3.9976	.6250
W99217	85	3.3465	150	5.9055	2.750	3.9976	.6250
D99217	85	3.3465	150	5.9055	5.500	3.9976	.6250
*M99317	85	3.3465	180	7.0866	2.875	4.2475	1.0000

Bearing Number	Maximum Bore Diameter		Minimum Outside Diameter		Maximum Width	Maximum Inner Race O.D.	Maximum Roller Diameter
	A		B		C	D	
	Mm	Inches	Mm	Inches	Inches	Inches	Inches
*99218	90	3.5433	160	6.2992	2.062	4.2475	.6875
*W99218	90	3.5433	160	6.2992	2.812	4.2475	.6875
*D99218	90	3.5433	160	6.2992	5.625	4.2475	.6875
*99318	90	3.5433	190	7.4803	3.000	4.4973	1.0625
*99219	95	3.7402	170	6.6929	2.187	4.4973	.7500
*W99219	95	3.7402	170	6.6929	3.000	4.4973	.7500
*D99219	95	3.7402	170	6.6929	6.000	4.4973	.7500
*M99319	95	3.7402	200	7.8740	3.062	4.7472	1.1250
99220	100	3.9370	180	7.0866	2.312	4.7472	.7500
W99220	100	3.9370	180	7.0866	3.250	4.7472	.7500
D99220	100	3.9370	180	7.0866	6.500	4.7472	.7500
*99320	100	3.9370	215	8.4646	3.250	4.9970	1.2500
99222	110	4.3307	200	7.8740	2.562	5.2469	.8750
*W99222	110	4.3307	200	7.8740	3.500	5.2469	.8750
D99222	110	4.3307	200	7.8740	7.000	5.2469	.8750
*M99322	110	4.3307	240	9.4488	3.625	5.4967	1.3750
99224	120	4.7244	215	8.4646	2.812	5.6216	.9375
W99224	120	4.7244	215	8.4646	3.875	5.6216	.9375
D99224	120	4.7244	215	8.4646	7.750	5.6216	.9375
*99324	120	4.7244	260	10.2362	4.125	6.0588	1.3750
99226	130	5.1181	230	9.0551	3.125	6.0588	1.0000
W99226	130	5.1181	230	9.0551	4.250	6.0588	1.0000
SW99226	130	5.1181	215	8.4646	4.875	5.9964	.7500
D99226	130	5.1181	230	9.0551	8.500	6.0588	1.0000
SD99226	130	5.1181	215	8.4646	9.750	5.9964	.7500
*99326	130	5.1181	280	11.0236	4.375	6.5586	1.5000
99228	140	5.5118	250	9.8425	3.250	6.6211	1.0625
W99228	140	5.5118	250	9.8425	4.750	6.6211	1.0625
D99228	140	5.5118	250	9.8425	9.500	6.6211	1.0625
99230	150	5.9055	270	10.6299	3.500	7.0583	1.1875
W99230	150	5.9055	270	10.6299	4.750	7.0583	1.1875
99232	160	6.2992	290	11.4173	3.875	7.6205	1.2500
W99232	160	6.2992	290	11.4173	4.875	7.6205	1.2500
D99232	160	6.2992	290	11.4173	9.750	7.6205	1.2500
W99234	170	6.6929	310	12.2047	5.375	8.0577	1.3750
D99234	170	6.6929	310	12.2047	10.750	8.0577	1.3750
W99236	180	7.0866	320	12.5984	5.875	8.4637	1.3750
S99240	200	7.8740	340	13.3858	4.750	9.2446	1.3750
SW99240	200	7.8740	340	13.3858	6.875	9.2446	1.3750
SW99244	220	8.6614	380	14.9606	6.875	10.4314	1.3750
DA99244	220	8.6614	380	14.9606	10.750	10.4194	1.3750
S99148	240	9.4488	360	14.1732	4.500	10.6189	1.1875
S99156	280	11.0236	420	16.5354	5.000	12.3680	1.3750

*Consult for availability.

This bearing type is available with overlength, notched inner races suitable for application to unmachined shafting. Notched races are held by a key or shaft or a shaft collar.

NEED HELP ON BEARINGS—CALL US



McGILL MULTIROL BEARINGS

"SOLIDEND" TYPE

SE-SERIES

WITH INNER RACES



The construction of the "Solidend" MULTIROL Bearings is such that it can be used without an inner race when it is necessary to conserve radial space. Roller retaining end shoulders built integral with the outer ring permit the use of rollers of maximum length for increased load capacity.

When the inner race is not used, the shaft must be hardened to a minimum of 60 Rockwell "C" scale and ground.

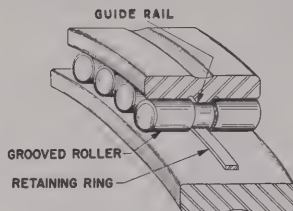
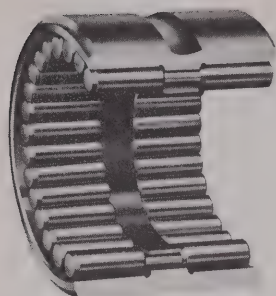
WITHOUT INNER RACES

Bearing No. (Less Inner Race)	Shaft Dia. Inches	Bearing Out. Dia. Inches	Width +0.000 -0.005
MO-10-N	.625	1.125	.750
MO-10	.625	1.125	1.000
MO-12-N	.750	1.250	.750
MO-12	.750	1.250	1.000
MO-14-N	.875	1.375	.750
MO-14	.875	1.375	1.000
MO-16-N	1.000	1.500	.750
MO-16	1.000	1.500	1.000
MO-18-N	1.125	1.625	1.000
MO-18	1.125	1.625	1.250
MO-20-N	1.250	1.750	1.000
MO-20	1.250	1.750	1.250
MO-22-N	1.375	1.875	1.000
MO-22	1.375	1.875	1.250
MO-24-N	1.500	2.0625	1.000
MO-24	1.500	2.0625	1.250
MO-26-N	1.625	2.1875	1.000
MO-26	1.625	2.1875	1.250
MO-28	1.750	2.3125	1.250
MO-29	1.8125	2.375	1.250
MO-30	1.875	2.4375	1.250
MO-32N	2.000	2.5625	1.000
MO-32	2.000	2.5625	1.250
MO-36-N	2.250	3.000	1.500
MO-36	2.250	3.000	1.750
MO-40-N	2.500	3.250	1.500
MO-40	2.500	3.250	1.750
MO-44-N	2.750	3.500	1.500
MO-44	2.750	3.500	1.750
MO-48-N	3.000	3.750	1.500
MO-48	3.000	3.750	1.750
MO-52	3.250	4.250	1.750
MO-56-N	3.500	4.500	1.750
MO-56	3.500	4.500	2.000
MO-60	3.750	4.750	2.000
MO-64	4.000	5.000	2.000
MO-68	4.250	5.250	2.000
MO-72	4.500	6.000	2.250
★MO-80	5.000	6.500	2.250
★MO-88-N	5.500	7.000	2.500
★MO-88	5.500	7.000	3.000
★MO-96-N	6.000	7.500	2.500
★MO-96	6.000	7.500	3.000
★MO-104-N	6.500	8.000	2.500
★MO-104	6.500	8.000	3.000
★MO-116	7.250	9.125	3.000
★MO-124	7.750	9.625	3.000
★MO-132	8.250	10.125	3.000
★MO-140	8.750	10.625	3.000
★MO-148	9.250	11.125	3.000

Complete Bearing No. (Includes Inner Race)		Bore	Outside Dia.	WIDTH +0.000 -0.005	
				Outer Race	Inner Race
MO-10-N	MI-6-N	.375	1.125	.750	.760
MO-10-N	MI-7-N	.4375	1.125	.750	.760
MO-10	MI-6	.375	1.125	1.000	1.010
MO-12-N	MI-8-N	.500	1.250	.750	.760
MO-12-N	MI-9-N	.5625	1.250	.750	.760
MO-12	MI-8	.500	1.250	1.000	1.010
MO-14-N	MI-10-N	.625	1.375	.750	.760
MO-14-N	MI-11-N	.6875	1.375	.750	.760
MO-14	MI-10	.625	1.375	1.000	1.010
MO-16-N	MI-12-N	.750	1.500	.750	.760
MO-16	MI-12	.750	1.500	1.000	1.010
MO-16	MI-13	.8125	1.500	1.000	1.010
MO-18-N	MI-14-N	.875	1.625	1.000	1.010
MO-18-N	MI-15-N	.9375	1.625	1.000	1.010
MO-18	MI-14	.875	1.625	1.250	1.260
MO-18	MI-15	.9375	1.625	1.250	1.260
MO-20-N	MI-16-N	1.000	1.750	1.000	1.010
MO-20	MI-16	1.000	1.750	1.250	1.260
MO-22-N	MI-18-N	1.125	1.875	1.000	1.010
MO-22	MI-17	1.0625	1.875	1.250	1.260
MO-22	MI-18	1.125	1.875	1.250	1.260
MO-24-N	MI-20-N	1.250	2.0625	1.000	1.010
MO-24	MI-19	1.1875	2.0625	1.250	1.260
MO-24	MI-20	1.250	2.0625	1.250	1.260
MO-26-N	MI-21-N	1.3125	2.1875	1.000	1.010
MO-26	MI-21	1.3125	2.1875	1.250	1.260
MO-26	MI-22-4S	1.375	2.1875	1.250	1.260
MO-28	MI-22	1.375	2.3125	1.250	1.260
MO-28	MI-23	1.4375	2.3125	1.250	1.260
MO-28	MI-24	1.500	2.3125	1.250	1.260
MO-30	MI-25-4S	1.5625	2.4375	1.250	1.260
MO-32-N	MI-26-N	1.625	2.5625	1.000	1.010
MO-32	MI-25	1.5625	2.5625	1.250	1.260
MO-32	MI-26	1.625	2.5625	1.250	1.260
MO-32	MI-27	1.6875	2.5625	1.250	1.260
MO-36-N	MI-28-N	1.750	3.000	1.500	1.510
MO-36	MI-28	1.750	3.000	1.750	1.760
MO-36	MI-30	1.875	3.000	1.750	1.760
MO-40-N	MI-32-N	2.000	3.250	1.500	1.510
MO-40	MI-31	1.9375	3.250	1.750	1.760
MO-40	MI-32	2.000	3.250	1.750	1.760
MO-40	MI-34	2.125	3.250	1.750	1.760
MO-44-N	MI-36-N	2.250	3.500	1.500	1.510
MO-44	MI-35	2.1875	3.500	1.750	1.760
MO-44	MI-36	2.250	3.500	1.750	1.760
MO-48-N	MI-40-N	2.500	3.750	1.500	1.510
MO-48	MI-38	2.375	3.750	1.750	1.760
MO-48	MI-39	2.4375	3.750	1.750	1.760
MO-48	MI-40	2.500	3.750	1.750	1.760
MO-52	MI-42	2.625	4.250	1.750	1.760
MO-52	MI-44	2.750	4.250	1.750	1.760
MO-56-N	MI-48-N	3.000	4.500	1.750	1.760
MO-56	MI-46	2.875	4.500	2.000	2.010
MO-56	MI-47	2.9375	4.500	2.000	2.010
MO-56	MI-48	3.000	4.500	2.000	2.010
MO-60	MI-50	3.125	4.750	2.000	2.010
MO-60	MI-52	3.250	4.750	2.000	2.010
MO-64	MI-54	3.375	5.000	2.000	2.010
MO-64	MI-56	3.500	5.000	2.000	2.010
MO-68	MI-58	3.625	5.250	2.000	2.010
MO-68	MI-60	3.750	5.250	2.000	2.010
MO-72	MI-62	3.875	6.000	2.250	2.260
★MO-80	MI-64	4.000	6.500	2.250	2.260
★MO-80	MI-68	4.250	6.500	2.250	2.260
★MO-88-N	★MI-72-N	4.500	7.000	2.500	2.515
★MO-88	★MI-72	4.500	7.000	3.000	3.015
★MO-96-N	★MI-80-N	5.000	7.500	2.500	2.515
★MO-96	★MI-80	5.000	7.500	3.000	3.015
★MO-104-N	★MI-88-N	5.500	8.000	2.500	2.515
★MO-104	★MI-88	5.500	8.000	3.000	3.015
★MO-116	★MI-96	6.000	9.125	3.000	3.015
★MO-124	★MI-104	6.500	9.625	3.000	3.015
★MO-132	★MI-112	7.000	10.125	3.000	3.015
★MO-140	★MI-120	7.500	10.625	3.000	3.015
★MO-148	★MI-128	8.000	11.125	3.000	3.015

★Consult for availability.

McGILL "GUIDEROL" BEARINGS



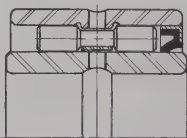
The possibility of roller skewing is avoided by the use of grooved rollers and a center guide rail which eliminates any tendency to bind under limited misalignment.

"Guderol" Bearings are now available with Seals. Suffix letters identify the various combinations offered.

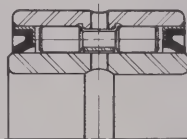
WITHOUT INNER RACES

Bearing No. (Less Inner Race)	Style SS Sealed Bearing No.	Shaft Dia. Inches	Bearing Out. Dia. Inches	Width +.000 -.005
GR-8-N		.500	1.000	.750
GR-10-N		.625	1.125	.750
GR-10	GR-10-SS	.625	1.125	1.000
GR-12-N		.750	1.250	.750
GR-12	GR-12-SS	.750	1.250	1.000
GR-14-N		.875	1.375	.750
GR-14	GR-14-SS	.875	1.375	1.000
GR-16-N		1.000	1.500	.750
GR-16	GR-16-SS	1.000	1.500	1.000
GR-18-N		1.125	1.625	1.000
GR-18	GR-18-SS	1.125	1.625	1.250
GR-20-N		1.250	1.750	1.000
GR-20	GR-20-SS	1.250	1.750	1.250
GR-22-N		1.375	1.875	1.000
GR-22	GR-22-SS	1.375	1.875	1.250
GR-24-N		1.500	2.0625	1.000
GR-24	GR-24-SS	1.500	2.0625	1.250
GR-26-N		1.625	2.1875	1.000
GR-26	GR-26-SS	1.625	2.1875	1.250
GR-28	GR-28-SS	1.750	2.3125	1.250
GR-30	GR-30-SS	1.875	2.4375	1.250
GR-32-N		2.000	2.5625	1.000
GR-32	GR-32-SS	2.000	2.5625	1.250
GR-36-N		2.250	3.000	1.500
GR-36	GR-36-SS	2.250	3.000	1.750
GR-40-N		2.500	3.250	1.500
GR-40	GR-40-SS	2.500	3.250	1.750
GR-44-N		2.750	3.500	1.500
GR-44	GR-44-SS	2.750	3.500	1.750
GR-48-N		3.000	3.750	1.500
GR-48	GR-48-SS	3.000	3.750	1.750
GR-52	GR-52-SS	3.250	4.250	1.750
GR-56-N		3.500	4.500	1.750
GR-56	GR-56-SS	3.500	4.500	2.000
GR-60	GR-60-SS	3.750	4.750	2.000
GR-64	GR-64-SS	4.000	5.000	2.000
GR-68	GR-68-SS	4.250	5.250	2.000
GR-72		4.500	6.000	2.250
GR-80		5.000	6.500	2.250
*GR-88-N		5.500	7.000	2.500
*GR-88		5.500	7.000	3.000
*GR-96-N		6.000	7.500	2.500
*GR-96		6.000	7.500	3.000
*GR-104-N		6.500	8.000	2.500
*GR-104		6.500	8.000	3.000
*GR-116		7.250	9.125	3.000
*GR-124		7.750	9.625	3.000
*GR-132		8.250	10.125	3.000
*GR-140		8.750	10.625	3.000
*GR-148		9.250	11.125	3.000

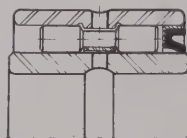
"SS" Type. Double Seal with lips turned in. Most commonly used. Best for lubricant retention.



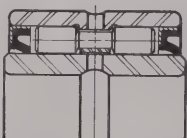
"S" Type. Single Seal with lip turned in for lubricant retention.



"RSS" Type. Double Seal with both lips turned out. Best for dirt exclusion.



"RS" Type. Single Seal with lip turned out. Best for dirt exclusion.



"SRS" Type. Double Seal with one lip turned in to retain lubricant and other lip turned out to exclude foreign material.

Guderol Roller Bearings were developed to provide the maximum of full type bearing load capacity and still retain the non-skewing advantages of retainer equipped bearings.

WITH INNER RACE

Complete Bearing No. (Includes Inner Race)		Bore	Outside Dia.	WIDTH +.000 -.005	
				Outer Race	Inner Race
GR-10-N	MI-6-N	.375	1.125	.750	.760
GR-10-N	MI-7-N	.4375	1.125	.750	.760
GR-10	MI-6	.375	1.125	1.000	1.010
GR-12-N	MI-8-N	.500	1.250	.750	.760
GR-12-N	MI-9-N	.5625	1.250	.750	.760
GR-12	MI-8	.500	1.250	1.000	1.010
GR-14-N	MI-10-N	.625	1.375	.750	.760
GR-14-N	MI-11-N	.6875	1.375	.750	.760
GR-14	MI-10	.625	1.375	1.000	1.010
GR-16-N	MI-12-N	.750	1.500	.750	.760
GR-16	MI-12	.750	1.500	1.000	1.010
GR-16	MI-13	.8125	1.500	1.000	1.010
GR-18-N	MI-14-N	.875	1.625	1.000	1.010
GR-18-N	MI-15-N	.9375	1.625	1.000	1.010
GR-18	MI-14	.875	1.625	1.250	1.260
GR-18	MI-15	.9375	1.625	1.250	1.260
GR-20-N	MI-16-N	1.000	1.750	1.000	1.010
GR-20	MI-16	1.000	1.750	1.250	1.260
GR-22-N	MI-18-N	1.125	1.875	1.000	1.010
GR-22	MI-17	1.0625	1.875	1.250	1.260
GR-22	MI-18	1.125	1.875	1.250	1.260
GR-24-N	MI-20-N	1.250	2.0625	1.000	1.010
GR-24	MI-19	1.1875	2.0625	1.250	1.260
GR-24	MI-20	1.250	2.0625	1.250	1.260
GR-26-N	MI-21-N	1.3125	2.1875	1.000	1.010
GR-26	MI-21	1.3125	2.1875	1.250	1.260
GR-26	MI-22-4S	1.375	2.1875	1.250	1.260
GR-28	MI-22	1.375	2.3125	1.250	1.260
GR-28	MI-23	1.4375	2.3125	1.250	1.260
GR-28	MI-24	1.500	2.3125	1.250	1.260
GR-30	MI-25-4S	1.5625	2.4375	1.250	1.260
GR-32-N	MI-26-N	1.625	2.5625	1.000	1.010
GR-32	MI-25	1.5625	2.5625	1.250	1.260
GR-32	MI-26	1.625	2.5625	1.250	1.260
GR-32	MI-27	1.6875	2.5625	1.250	1.260
GR-36-N	MI-28-N	1.750	3.000	1.500	1.510
GR-36	MI-28	1.750	3.000	1.750	1.760
GR-36	MI-30	1.875	3.000	1.750	1.760
GR-40-N	MI-32-N	2.000	3.250	1.500	1.510
GR-40	MI-31	1.9375	3.250	1.750	1.760
GR-40	MI-32	2.000	3.250	1.750	1.760
GR-40	MI-34	2.125	3.250	1.750	1.760
GR-44-N	MI-36-N	2.250	3.500	1.500	1.510
GR-44	MI-35	2.1875	3.500	1.750	1.760
GR-44	MI-36	2.250	3.500	1.750	1.760
GR-48-N	MI-40-N	2.500	3.750	1.500	1.510
GR-48	MI-38	2.375	3.750	1.750	1.760
GR-48	MI-39	2.4375	3.750	1.750	1.760
GR-48	MI-40	2.500	3.750	1.750	1.760
GR-52	MI-42	2.625	4.250	1.750	1.760
GR-52	MI-44	2.750	4.250	1.750	1.760
GR-56-N	MI-48-N	3.000	4.500	1.750	1.760
GR-56	MI-46	2.875	4.500	2.000	2.010
GR-56	MI-47	2.9375	4.500	2.000	2.010
GR-56	MI-48	3.000	4.500	2.000	2.010
GR-60	MI-50	3.125	4.750	2.000	2.010
GR-60	MI-52	3.250	4.750	2.000	2.010
GR-64	MI-54	3.375	5.000	2.000	2.010
GR-64	MI-56	3.500	5.000	2.000	2.010
GR-68	MI-58	3.625	5.250	2.000	2.010
GR-68	MI-60	3.750	5.250	2.000	2.010
GR-72	MI-62	3.875	6.000	2.250	2.260
GR-80	MI-64	4.000	6.500	2.250	2.260
GR-80	MI-68	4.250	6.500	2.250	2.260
*GR-88-N	MI-72-N	4.500	7.000	2.500	2.515
*GR-88	MI-72	4.500	7.000	3.000	3.015
*GR-96-N	MI-80-N	5.000	7.500	2.500	2.515
*GR-96	MI-80	5.000	7.500	3.000	3.015
*GR-104-N	MI-88-N	5.500	8.000	2.500	2.515
*GR-104	MI-88	5.500	8.000	3.000	3.015
*GR-116	MI-96	6.000	9.125	3.000	3.015
*GR-124	MI-104	6.500	9.625	3.000	3.015
*GR-132	MI-112	7.000	10.125	3.000	3.015
*GR-140	MI-120	7.500	10.625	3.000	3.015
*GR-148	MI-128	8.000	11.125	3.000	3.015

*Consult for availability.

NEED HELP ON BEARINGS—CALL US

McGILL "CAGEROL" BEARINGS

McGill CAGEROL bearings are designed especially to meet the performance requirements of applications where greater shaft misalignment and higher speeds exceed the capabilities of ordinary full complement needle roller bearings. In this new design a precision cage spaces and locates the crowned rollers.

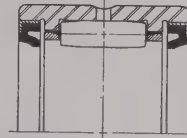
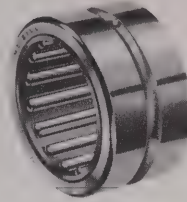
MR series bearings are interchangeable dimensionally with all heavy duty needle bearings.

The outer ring and roller assemblies (MR) shown in this table are for use without inner rings on a ground shaft for which a minimum hardness of 60 Rockwell "C" scale is recommended.

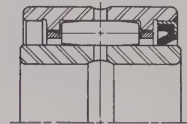
WITHOUT INNER RACES

Bearing No. (Less Inner Race)	Style SS Sealed Bearing No.	Shaft Dia. Inches	Bearing Out. Dia. Inches	Width + .000 - .005
MR-8-N		.5000	1.0000	.750
MR-10-N		.6250	1.1250	.750
MR-10	MR-10-SS	.6250	1.1250	1.000
MR-12-N		.7500	1.2500	.750
MR-12	MR-12-SS	.7500	1.2500	1.000
MR-14-N		.8750	1.3750	.750
MR-14	MR-14-SS	.8750	1.3750	1.000
MR-16-N		1.0000	1.5000	.750
MR-16	MR-16-SS	1.0000	1.5000	1.000
MR-18-N		1.1250	1.6250	1.000
MR-18	MR-18-SS	1.1250	1.6250	1.250
MR-20-N		1.2500	1.7500	1.000
MR-20	MR-20-SS	1.2500	1.7500	1.250
MR-22-N		1.3750	1.8750	1.000
MR-22	MR-22-SS	1.3750	1.8750	1.250
MR-24-N		1.5000	2.0625	1.000
MR-24	MR-24-SS	1.5000	2.0625	1.250
MR-26-N		1.6250	2.1875	1.000
MR-26	MR-26-SS	1.6250	2.1875	1.250
MR-28	MR-28-SS	1.7500	2.3125	1.250
*MR-30	MR-30-SS	1.8750	2.4375	1.250
MR-32-N		2.0000	2.5625	1.000
MR-32	MR-32-SS	2.0000	2.5625	1.250
MR-36-N		2.2500	3.0000	1.500
MR-36	MR-36-SS	2.2500	3.0000	1.750
MR-40-N		2.5000	3.2500	1.500
MR-40	MR-40-SS	2.5000	3.2500	1.750
MR-44-N		2.7500	3.5000	1.500
MR-44	MR-44-SS	2.7500	3.5000	1.750
MR-48-N		3.0000	3.7500	1.500
MR-48	MR-48-SS	3.0000	3.7500	1.750
*MR-52	*MR-52-SS	3.2500	4.2500	1.750
*MR-56-N		3.5000	4.5000	2.000
*MR-56	*MR-56-SS	3.5000	4.5000	2.000
*MR-60	*MR-60-SS	3.7500	4.7500	2.000
*MR-64	*MR-64-SS	4.0000	5.0000	2.000
*MR-68	*MR-68-SS	4.2500	5.2500	2.000
*MR-72		4.5000	6.0000	2.250
*MR-80		5.0000	6.5000	2.250
*MR-88-N		5.5000	7.0000	2.500
*MR-88		5.5000	7.0000	3.000
*MR-96-N		6.0000	7.5000	2.500
*MR-96		6.0000	7.5000	3.000
*MR-104-N		6.5000	8.0000	2.500
*MR-104		6.5000	8.0000	3.000
*MR-116		7.2500	9.1250	3.000
*MR-124		7.7500	9.6250	3.000
*MR-132		8.2500	10.1250	3.000
*MR-140		8.7500	10.6250	3.000
*MR-148		9.2500	11.1250	3.000

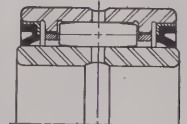
*Check for availability.



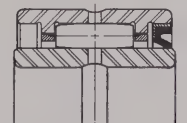
"SS" Type. Double Seal with lips turned in. Most commonly used. Best for lubricant retention.



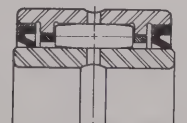
"S" Type. Single Seal with lip turned in for lubricant retention.



"RSS" Type. Double Seal with both lips turned out. Best for dirt exclusion.



"RS" Type. Single Seal with lip turned out. Best for dirt exclusion.



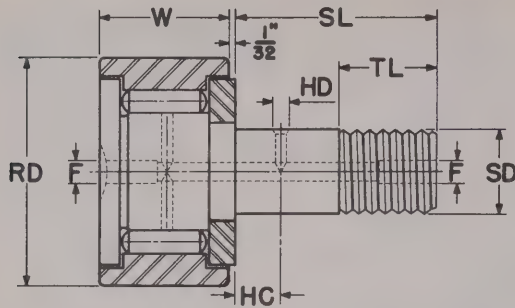
"SRS" Type. Double Seal with one lip turned in to retain lubricant and other lip turned out to exclude foreign material.

CAGEROL bearings, both plain and sealed, are suitable for all types of stationary, oscillating and rotating applications.

WITH INNER RACE

Complete Bearing No. (Includes Inner Race)		Bore	Outside Dia.	WIDTH + .000 - .005	
				Outer Race	Inner Race
MR-10-N	MI-6-N	.3750	1.1250	.750	.760
MR-10-N	MI-7-N	.4375	1.1250	.750	.760
MR-10	MI-6	.3750	1.1250	1.000	1.010
MR-12-N	MI-8-N	.5000	1.2500	.750	.760
MR-12-N	MI-9-N	.5625	1.2500	.750	.760
MR-12	MI-8	.5000	1.2500	1.000	1.010
MR-14-N	MI-10-N	.6250	1.3750	.750	.760
MR-14-N	MI-11-N	.6875	1.3750	.750	.760
MR-14	MI-10	.6250	1.3750	1.000	1.010
MR-16-N	MI-12-N	.7500	1.5000	.750	.760
MR-16	MI-12	.7500	1.5000	1.000	1.010
MR-16	MI-13	.8125	1.5000	1.000	1.010
MR-18-N	MI-14-N	.8750	1.6250	1.000	1.010
MR-18-N	MI-15-N	.9375	1.6250	1.000	1.010
MR-18	MI-14	.8750	1.6250	1.250	1.260
MR-18	MI-15	.9375	1.6250	1.250	1.260
MR-20-N	MI-16-N	1.0000	1.7500	1.000	1.010
MR-20	MI-16	1.0000	1.7500	1.250	1.260
MR-22-N	MI-18-N	1.1250	1.8750	1.000	1.010
MR-22	MI-17	1.0625	1.8750	1.250	1.260
MR-22	MI-18	1.1250	1.8750	1.250	1.260
MR-24-N	MI-20-N	1.2500	2.0625	1.000	1.010
MR-24	MI-19	1.1875	2.0625	1.250	1.260
MR-24	MI-20	1.2500	2.0625	1.250	1.260
MR-26-N	MI-21-N	1.3125	2.1875	1.000	1.010
MR-26	MI-21	1.3125	2.1875	1.250	1.260
MR-26	MI-22-4S	1.3750	2.1875	1.250	1.260
MR-28	MI-22	1.3750	2.3125	1.250	1.260
MR-28	MI-23	1.4375	2.3125	1.250	1.260
MR-28	MI-24	1.5000	2.3125	1.250	1.260
*MR-30	MI-25-4S	1.5625	2.4375	1.250	1.260
*MR-32-N	MI-26-N	1.6250	2.5625	1.000	1.010
MR-32	MI-25	1.5625	2.5625	1.250	1.260
MR-32	MI-26	1.6250	2.5625	1.250	1.260
MR-32	MI-27	1.6875	2.5625	1.250	1.260
MR-36-N	MI-28-N	1.7500	3.0000	1.500	1.510
MR-36	MI-28	1.7500	3.0000	1.750	1.760
MR-36	MI-30	1.8750	3.0000	1.750	1.760
MR-40-N	MI-32-N	2.0000	3.2500	1.500	1.510
MR-40	MI-31	1.9375	3.2500	1.750	1.760
MR-40	MI-32	2.0000	3.2500	1.750	1.760
MR-40	MI-34	2.1250	3.2500	1.750	1.760
MR-44-N	MI-36-N	2.2500	3.5000	1.500	1.510
MR-44	MI-35	2.1875	3.5000	1.750	1.760
MR-44	MI-36	2.2500	3.5000	1.750	1.760
MR-48-N	MI-40-N	2.5000	3.7500	1.500	1.510
MR-48	MI-38	2.3750	3.7500	1.750	1.760
MR-48	MI-39	2.4375	3.7500	1.750	1.760
MR-48	MI-40	2.5000	3.7500	1.750	1.760
*MR-52	MI-42	2.6250	4.2500	1.750	1.760
*MR-52	MI-44	2.7500	4.2500	1.750	1.760
*MR-56-N	MI-48-N	3.0000	4.5000	1.750	1.760
*MR-56	MI-46	2.8750	4.5000	2.000	2.010
*MR-56	MI-47	2.9375	4.5000	2.000	2.010
*MR-56	MI-48	3.0000	4.5000	2.000	2.010
*MR-60	MI-50	3.1250	4.7500	2.000	2.010
*MR-60	MI-52	3.2500	4.7500	2.000	2.010
*MR-64	MI-54	3.3750	5.0000	2.000	2.010
*MR-64	MI-56	3.5000	5.0000	2.000	2.010
*MR-68	MI-58	3.6250	5.2500	2.000	2.010
*MR-68	MI-60	3.7500	5.2500	2.000	2.010
*MR-72	MI-62	3.8750	6.0000	2.250	2.260
*MR-80	MI-64	4.0000	6.5000	2.250	2.260
*MR-80	MI-68	4.2500	6.5000	2.250	2.260
*MR-88-N	MI-72-N	4.5000	7.0000	2.500	2.515
*MR-88	MI-72	4.5000	7.0000	3.000	3.015
*MR-96-N	MI-80-N	5.0000	7.5000	2.500	2.515
*MR-96	MI-80	5.0000	7.5000	3.000	3.015
*MR-104-N	MI-88-N	5.5000	8.0000	2.500	2.515
*MR-104	MI-88	5.5000	8.0000	3.000	3.015
*MR-116	MI-96	6.0000	9.1250	3.000	3.015
*MR-124	MI-104	6.5000	9.6250	3.000	3.015
*MR-132	MI-112	7.0000	10.1250	3.000	3.015
*MR-140	MI-120	7.5000	10.6250	3.000	3.015
*MR-148	MI-128	8.0000	11.1250	3.000	3.015

*Check for availability.

McGILL CAMROL BEARINGS

The McGill Cam Follower is of a needle roller construction with a full complement of small diameter rollers so that by increasing race and roller contact, load-carrying capacity is raised to the maximum.

For grease relubrication of the cam follower series, the following drive fittings may be employed in the axial stud oil hole:

CF-1/2 to CF-11/16 incl.

1/8" Alemite drive fitting No. 3019 or Special No. 1736 Alemite drive fitting (No. 1736 fitting cut off to 5/32" shank length).

CF-3/4 to CF-1 1/8 incl.

3/16" Alemite drive fittings 1728-B, 1645-B, 3005, and 3006.

CF-1 1/4 to CF-2 3/4 incl.

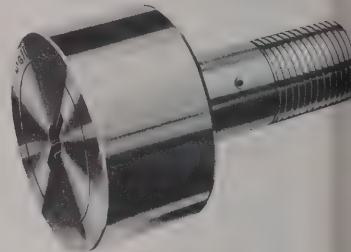
3/16" Alemite drive fittings 1633, 1728-B, 1645-B, 3005, and 3006.

CF-3 to CF-6 incl.

1/4" Alemite drive fitting No. 1743 and No. 1743-B.

CF AND SCF SERIES

Cam Follower No.	Sealed Cam Follower No.	Roller Dia. (RD) + .000 - .001	Roller Width (W) + .000 - .005	Stud Dia. (SD) + .001 - .000	Stud Length (SL)	Thr'd. Length (TL)	Fine Threads	Oil Hole		Lub. Fitting Size (F)*
								Hole Center (HC)	Hole Dia. (HD)	
CF-1/2	CF-1/2-S	.500	.375	.190	5/8	1/4	10-32	—	—	1/8*
CF-5/16	CF-5/16-S	.5625	.375	.190	5/8	1/4	10-32	—	—	1/8*
CF-3/8	CF-3/8-S	.625	.4375	.250	3/4	5/16	1/4-28	—	—	1/8*
CF-11/16	CF-11/16-S	.6875	.4375	.250	3/4	5/16	1/4-28	—	—	1/8*
CF-3/4	CF-3/4-S	.750	.500	.375	7/8	3/8	3/4-24	1/4	3/32	3/16
CF-7/8	CF-7/8-S	.875	.500	.375	7/8	3/8	3/4-24	1/4	3/32	3/16
CF-1	CF-1-S	1.000	.625	.4375	1	1/2	7/16-20	1/4	3/32	3/16
CF-1 1/8	CF-1 1/8-S	1.125	.625	.4375	1	1/2	7/16-20	1/4	3/32	3/16
CF-1 1/4	CF-1 1/4-S	1.250	.750	.500	1 1/4	5/8	7/16-20	5/16	3/32	3/16
CF-1 3/8	CF-1 3/8-S	1.375	.750	.500	1 1/4	5/8	1/2-20	5/16	3/32	3/16
CF-1 1/2	CF-1 1/2-S	1.500	.875	.625	1 1/2	3/4	5/8-18	3/8	3/32	3/16
CF-1 5/8	CF-1 5/8-S	1.625	.875	.625	1 1/2	3/4	5/8-18	3/8	3/32	3/16
CF-1 3/4	CF-1 3/4-S	1.750	1.000	.750	1 3/4	7/8	3/4-16	7/16	3/32	3/16
CF-1 7/8	CF-1 7/8-S	1.875	1.000	.750	1 3/4	7/8	3/4-16	7/16	3/32	3/16
CF-2	CF-2-S	2.000	1.250	.875	2	1	7/8-14	1/2	1/8	3/16
CF-2 1/4	CF-2 1/4-S	2.250	1.250	.875	2	1	7/8-14	1/2	1/8	3/16
CF-2 1/2	CF-2 1/2-S	2.500	1.500	1.000	2 1/4	1 1/8	1-14	9/16	1/8	3/16
CF-2 3/4	CF-2 3/4-S	2.750	1.500	1.000	2 1/4	1 1/8	1-14	9/16	1/8	3/16
CF-3	CF-3-S	3.000	1.750	1.250	2 1/2	1 1/4	1 1/4-12	5/8	1/8	1/4
CF-3 1/4	CF-3 1/4-S	3.250	1.750	1.250	2 1/2	1 1/4	1 1/4-12	5/8	1/8	1/4
CF-3 1/2	CF-3 1/2-S	3.500	2.000	1.375	2 3/4	1 3/8	1 3/8-12	11/16	1/8	1/4
CF-4	CF-4-S	4.000	2.250	1.500	3 1/2	1 1/2	1 1/2-12	3/4	1/8	1/4
†CF-5	†CF-5-S	5.000	2.750	2.000	4 1/4	2	2-12	1	1/8	1/4
†CF-6	†CF-6-S	6.000	3.250	2.500	5 1/2	2 1/2	2 1/2-12	1	1/8	1/4



CF Series

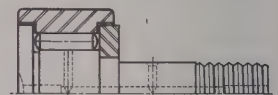
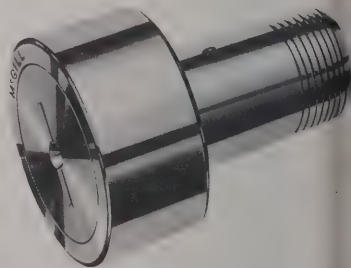


Sealed SCF Series

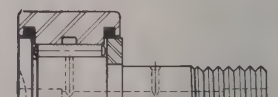
CFH AND SCFH SERIES

CFH-1/2	CFH-1/2-S	.500	.375	.250	5/8	1/4	1/4-28	—	—	1/8*
CFH-5/16	CFH-5/16-S	.5625	.375	.250	5/8	1/4	1/4-28	—	—	1/8*
CFH-3/8	CFH-3/8-S	.625	.4375	.3125	3/4	5/16	5/16-24	—	—	1/8*
CFH-11/16	CFH-11/16-S	.6875	.4375	.3125	3/4	5/16	5/16-24	—	—	1/8*
CFH-3/4	CFH-3/4-S	.750	.500	.4375	7/8	3/8	7/16-20	1/4	3/32	3/16
CFH-7/8	CFH-7/8-S	.875	.500	.4375	7/8	3/8	7/16-20	1/4	3/32	3/16
CFH-1	CFH-1-S	1.000	.625	.625	1	1/2	5/8-18	1/4	3/32	3/16
CFH-1 1/8	CFH-1 1/8-S	1.125	.625	.625	1	1/2	5/8-18	1/4	3/32	3/16
CFH-1 1/4	CFH-1 1/4-S	1.250	.750	.750	1 1/4	5/8	3/4-16	5/16	3/32	3/16
CFH-1 3/8	CFH-1 3/8-S	1.375	.750	.750	1 1/4	5/8	3/4-16	5/16	3/32	3/16
CFH-1 1/2	CFH-1 1/2-S	1.500	.875	.875	1 1/2	3/4	7/8-14	3/8	3/32	3/16
CFH-1 5/8	CFH-1 5/8-S	1.625	.875	.875	1 1/2	3/4	7/8-14	3/8	3/32	3/16
CFH-1 3/4	CFH-1 3/4-S	1.750	1.000	1.000	1 3/4	7/8	1-14	7/16	3/32	3/16
CFH-1 7/8	CFH-1 7/8-S	1.875	1.000	1.000	1 3/4	7/8	1-14	7/16	3/32	3/16
CFH-2	CFH-2-S	2.000	1.250	1.125	2	1	1 1/8-12	1/2	1/8	3/16
CFH-2 1/4	CFH-2 1/4-S	2.250	1.250	1.125	2	1	1 1/8-12	1/2	1/8	3/16
CFH-2 1/2	CFH-2 1/2-S	2.500	1.500	1.250	2 1/4	1 1/8	1 1/4-12	5/8	1/8	3/16
CFH-2 3/4	CFH-2 3/4-S	2.750	1.500	1.250	2 1/4	1 1/8	1 1/4-12	5/8	1/8	3/16
CFH-3	CFH-3-S	3.000	1.750	1.500	2 1/2	1 1/4	1 1/2-12	5/8	1/8	1/4
CFH-3 1/4	CFH-3 1/4-S	3.250	1.750	1.500	2 1/2	1 1/4	1 1/2-12	5/8	1/8	1/4
CFH-3 1/2	CFH-3 1/2-S	3.500	2.000	1.750	2 3/4	1 3/8	1 3/8-12	11/16	1/8	1/4
CFH-4	CFH-4-S	4.000	2.250	2.000	3 1/2	1 1/2	2-12	3/4	1/8	1/4
†CFH-5	†CFH-5-S	5.000	2.750	2.500	4 1/4	2	2 1/2-12	1	1/8	1/4
†CFH-6	†CFH-6-S	6.000	3.250	3.000	5 1/2	2 1/2	3-12	1	1/8	1/4

†Consult for availability. *Oil holes (F) drilled from the flange end of the stud to the radial oil holes only.



CFH Series



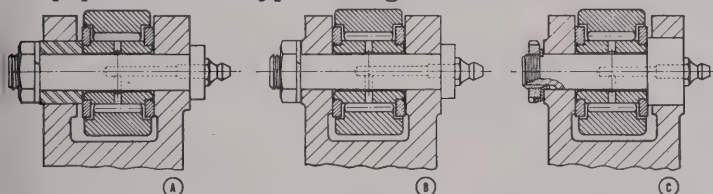
Sealed SCFH Series

McGILL **CAMROL** BEARINGS CAM YOKE ROLLER SERIES

CAMROL CYR (Cam Yoke Roller) Series roller bearings are designed to increase the adaptability of Cam Follower bearings to all types of automatic machinery involving cam action or controlled motion of machine parts that require guide or support rollers.

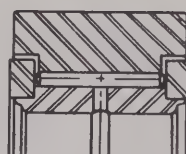
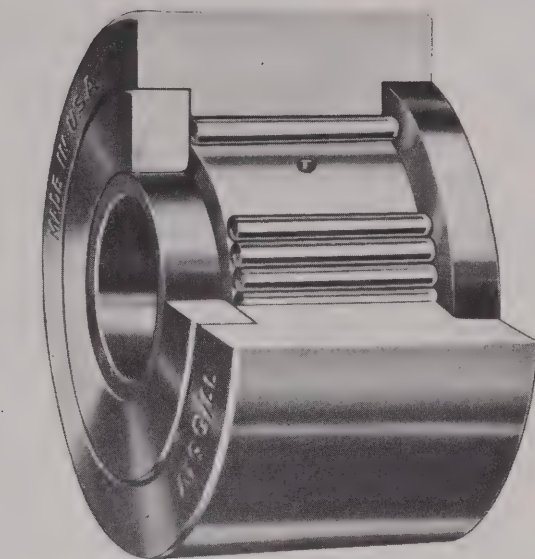
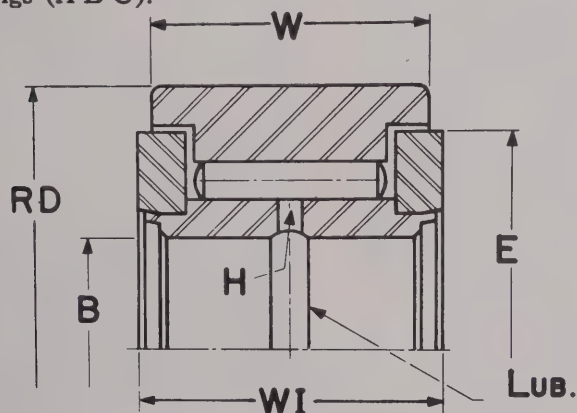
Sturdy roller retaining end plates are tightly fitted and secured to the end shoulders of the inner ring that is non-separable.

Internal construction of the CYR Series bearing is similar to that of a CF Series bearing with a heavy outer ring section to withstand shock load. However, an inner ring replaces the stud for shaft mounting. Yoke mounting is popular for this type bearing.



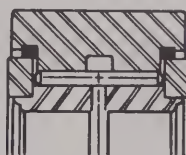
YOKE MOUNTINGS

Illustrating three methods of yoke mounting for CYR bearings (A-B-C).



CYR Series

CYR Series Camrol Bearing Cam Follower—Heavy section outer ring, inner ring, non-separable parts, inch dimensions.



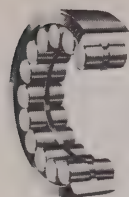
SCYR Series

SCYR Series SEALED Camrol Bearing Cam Follower—Heavy section outer ring, inner ring, non-separable parts, inch dimensions, with synthetic seals.

Bearing Number	Sealed Type	Bore (B)	Roller Diameter (RD)	Width of Roller (W)	Width Over End Plates (WI)	Diameter of End Plates (E)	Oil Hole (One) H
		Nom.					
CYR-3/4	CYR-3/4-S	.250	.750	.500	.5625	39/64	3/32"
CYR-7/8	CYR-7/8-S	.250	.875	.500	.5625	39/64	3/32"
CYR-1	CYR-1-S	.3125	1.000	.625	.6875	25/32	3/32"
CYR-1 1/8	CYR-1 1/8-S	.3125	1.125	.625	.6875	25/32	3/32"
CYR-1 1/4	CYR-1 1/4-S	.375	1.250	.750	.8125	63/64	3/32"
CYR-1 3/8	CYR-1 3/8-S	.375	1.375	.750	.8125	63/64	3/32"
CYR-1 1/2	CYR-1 1/2-S	.4375	1.500	.875	.9375	13/32	3/32"
CYR-1 5/8	CYR-1 5/8-S	.4375	1.625	.875	.9375	13/32	3/32"
CYR-1 3/4	CYR-1 3/4-S	.500	1.750	1.000	1.0625	1 1/4	3/32"
CYR-1 7/8	CYR-1 7/8-S	.500	1.875	1.000	1.0625	1 1/4	3/32"
CYR-2	CYR-2-S	.625	2.000	1.250	1.3125	1 13/32	3/32"
CYR-2 1/4	CYR-2 1/4-S	.625	2.250	1.250	1.3125	1 13/32	3/32"
CYR-2 1/2	CYR-2 1/2-S	.750	2.500	1.500	1.5625	1 11/16	1/8"
CYR-2 3/4	CYR-2 3/4-S	.750	2.750	1.500	1.5625	1 11/16	1/8"
CYR-3	CYR-3-S	1.000	3.000	1.750	1.8125	2 1/8	1/8"
CYR-3 1/4	CYR-3 1/4-S	1.000	3.250	1.750	1.8125	2 1/8	1/8"
CYR-3 1/2	CYR-3 1/2-S	1.125	3.500	2.000	2.0625	2 7/16	1/8"
CYR-4	CYR-4-S	1.250	4.000	2.250	2.3125	2 51/64	1/8"
*CYR-5	CYR-5-S	1.750	5.000	2.750	2.8125	3 1/2	1/8"
*CYR-6	CYR-6-S	2.250	6.000	3.250	3.3125	4 1/8	1/8"

*Check for availability.

NEED HELP ON BEARINGS—CALL US

McGILL GUIDEROL BEARINGS**METRIC SERIES SINGLE ROW**

Interchangeable with light series, metric type ball and roller bearings.

Guiderol Roller Bearings offer the maximum load carrying capacity of full type roller bearings in the over-all dimensional combinations of ordinary retainer type cylindrical roller bearings.

Even though cageless these bearings eliminate roller skewing and provide extra capacity and performance advantages in many different types of the tougher bearing applications.

Inner rings may be eliminated to reduce radial space.

Not all sizes stocked at present—inquire for availability.

Some sizes furnished with lubrication groove and oil hole in outer race.

**WITHOUT INNER RACES**

Bearing No.	Shaft Dia. Inches	Outside Dia.		Width	
		Mm	Inches	Mm	Inches

WITH INNER RACES

Complete Bearing No.	Inner Race No. Only	Bore		Outside Dia.		Width	
		Mm	Inches	Mm	Inches	Mm	Inches

SINGLE WIDTH SERIES

GR-204	1.1087	47	1.8504	14	.5512
GR-205	1.2668	52	2.0472	15	.5906
GR-206	1.4990	62	2.4409	16	.6299
GR-207	1.7317	72	2.8346	17	.6693
GR-208	1.9664	80	3.1496	18	.7087
GR-209	2.1866	85	3.3465	19	.7480
GR-210	2.3812	90	3.5433	20	.7874
GR-211	2.6349	100	3.9370	21	.8268
GR-212	2.8506	110	4.3307	22	.8661
GR-213	3.1673	120	4.7244	23	.9055
GR-214	3.3387	125	4.9213	24	.9449
GR-215	3.5058	130	5.1181	25	.9843
GR-216	3.7528	140	5.5118	26	1.0236
GR-217	4.0172	150	5.9055	28	1.1024
GR-218	4.2225	160	6.2992	30	1.1811
GR-219	4.4706	170	6.6929	32	1.2598
GR-220	4.7655	180	7.0866	34	1.3386

SINGLE WIDTH SERIES

GRI-204	I-204	20	.7874	47	1.8504	14	.5512
GRI-205	I-205	25	.9843	52	2.0472	15	.5906
GRI-206	I-206	30	1.1811	62	2.4409	16	.6299
GRI-207	I-207	35	1.3780	72	2.8346	17	.6693
GRI-208	I-208	40	1.5748	80	3.1496	18	.7087
GRI-209	I-209	45	1.7717	85	3.3465	19	.7480
GRI-210	I-210	50	1.9685	90	3.5433	20	.7874
GRI-211	I-211	55	2.1654	100	3.9370	21	.8268
GRI-212	I-212	60	2.3622	110	4.3307	22	.8661
GRI-213	I-213	65	2.5591	120	4.7244	23	.9055
GRI-214	I-214	70	2.7559	125	4.9213	24	.9449
GRI-215	I-215	75	2.9528	130	5.1181	25	.9843
GRI-216	I-216	80	3.1496	140	5.5118	26	1.0236
GRI-217	I-217	85	3.3465	150	5.9055	28	1.1024
GRI-218	I-218	90	3.5433	160	6.2992	30	1.1811
GRI-219	I-219	95	3.7402	170	6.6929	32	1.2598
GRI-220	I-220	100	3.9370	180	7.0866	34	1.3386

DOUBLE WIDTH SERIES

GR-5204	1.1087	47	1.8504	.....	.8125
GR-5205	1.2668	52	2.0472	.....	.8125
GR-5206	1.4990	62	2.4409	.....	.9375
GR-5207	1.7317	72	2.8346	.....	1.0625
GR-5208	1.9664	80	3.1496	.....	1.1875
GR-5209	2.1866	85	3.3465	.....	1.1875
GR-5210	2.3812	90	3.5433	.....	1.1875
GR-5211	2.6349	100	3.9370	.....	1.3125
GR-5212	2.8506	110	4.3307	.....	1.4375
GR-5213	3.1673	120	4.7244	.....	1.5000
GR-5214	3.3387	125	4.9213	.....	1.5625
GR-5215	3.5058	130	5.1181	.....	1.6250
GR-5216	3.7528	140	5.5118	.....	1.7500
GR-5217	4.0172	150	5.9055	.....	1.9375
GR-5218	4.2225	160	6.2992	.....	2.0625
GR-5219	4.4706	170	6.6929	.....	2.1875
GR-5220	4.7655	180	7.0866	.....	2.3750

DOUBLE WIDTH SERIES

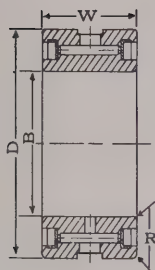
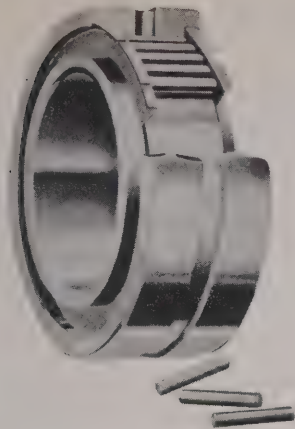
GRI-5204	I-5204	20	.7874	47	1.8504	.....	.8125
GRI-5205	I-5205	25	.9843	52	2.0472	.....	.8125
GRI-5206	I-5206	30	1.1811	62	2.4409	.....	.9375
GRI-5207	I-5207	35	1.3780	72	2.8346	.....	1.0625
GRI-5208	I-5208	40	1.5748	80	3.1496	.....	1.1875
GRI-5209	I-5209	45	1.7717	85	3.3465	.....	1.1875
GRI-5210	I-5210	50	1.9685	90	3.5433	.....	1.1875
GRI-5211	I-5211	55	2.1654	100	3.9370	.....	1.3125
GRI-5212	I-5212	60	2.3622	110	4.3307	.....	1.4375
GRI-5213	I-5213	65	2.5591	120	4.7244	.....	1.5000
GRI-5214	I-5214	70	2.7559	125	4.9213	.....	1.5625
GRI-5215	I-5215	75	2.9528	130	5.1181	.....	1.6250
GRI-5216	I-5216	80	3.1496	140	5.5118	.....	1.7500
GRI-5217	I-5217	85	3.3465	150	5.9055	.....	1.9375
GRI-5218	I-5218	90	3.5433	160	6.2992	.....	2.0625
GRI-5219	I-5219	95	3.7402	170	6.6929	.....	2.1875
GRI-5220	I-5220	100	3.9370	180	7.0866	.....	2.3750

McGILL MULTIROL BEARINGS

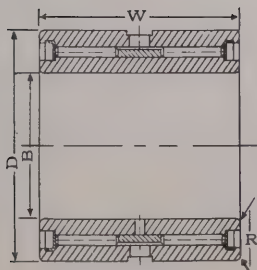
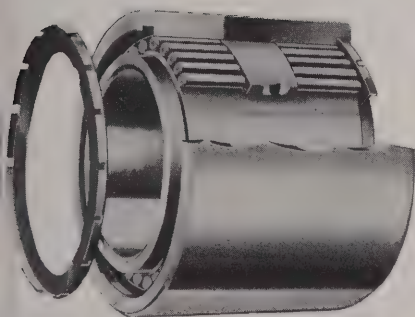
Types FR and FRD

These bearings discontinued as a standard series. It is recommended that where possible the bore, OD and width dimensions in new applications be established to suit a GR or MO-MI combination bearing.

Sizes identified with reassigned numbers are still produced in limited quantities. All others considered special production items.



Single Row



Double Row

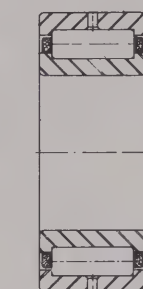
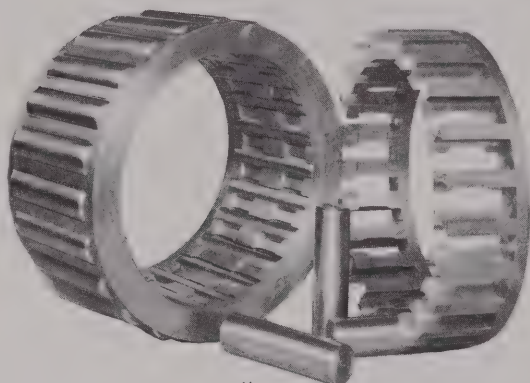
SINGLE ROW		BORE (B)		OUTSIDE DIA. (D)		WIDTH (W)		Corner Radius R	Roller Dia.
Reassigned Number	Old Number	Nominal Dia. In.	Tolerance +.0000	Nominal Dia. In.	Tolerance +.0000	In.	Tolerance +.000		
RS-5	FR-5/8"	5/8	-.0004	1 3/8	-.0005	7/8	-.0005	1/32	3/32
RS-6	FR-3/4"	3/4	-.0004	1 1/2	-.0005	7/8	-.0005	1/32	3/32
RS-7	FR-7/8"	7/8	-.0004	1 5/8	-.0005	1	-.0005	1/32	1/8
RS-8	FR-1"	1	-.0004	1 13/16	-.0005	1 1/16	-.0005	1/32	1/8
.....	FR-1 1/8"	1 1/8	-.0004	1 15/16	-.0006	1 1/16	-.0005	1/32	1/8
RS-10	FR-1 1/4"	1 1/4	-.0005	2 1/16	-.0006	1 1/16	-.0005	1/32	1/8
RS-11	FR-1 3/8"	1 3/8	-.0005	2 1/4	-.0006	1 1/8	-.0005	1/32	1/8
RS-12	FR-1 1/2"	1 1/2	-.0005	2 3/4	-.0006	1 3/8	-.0005	1/16	1/8
RS-13	FR-1 5/8"	1 5/8	-.0005	2 5/8	-.0006	1 3/8	-.0005	1/16	1/8
RS-14	FR-1 3/4"	1 3/4	-.0005	2 3/4	-.0006	1 3/8	-.0005	1/16	1/8
RS-15	FR-1 7/8"	1 7/8	-.0005	3	-.0006	1 3/8	-.0005	1/16	1/8
RS-16	FR-2"	2	-.0005	3 1/8	-.0006	1 3/8	-.0005	1/16	1/8
RS-18	FR-2 1/4"	2 1/4	-.0006	3 1/2	-.0008	1 3/8	-.0005	1/16	1/8
RS-20	FR-2 1/2"	2 1/2	-.0006	3 3/4	-.0008	1 1/2	-.0005	3/32	1/8
RS-22	FR-2 3/4"	2 3/4	-.0006	4	-.0008	1 1/2	-.0005	3/32	1/8
RS-24	FR-3"	3	-.0006	4 1/2	-.0008	1 3/4	-.0005	3/32	3/16
RS-26	FR-3 1/4"	3 1/4	-.0008	4 3/4	-.0010	1 3/4	-.0005	3/32	3/16
RS-28	FR-3 1/2"	3 1/2	-.0008	5	-.0010	1 3/4	-.0005	3/32	3/16
RS-30	FR-3 3/4"	3 3/4	-.0008	5 1/4	-.0010	1 3/4	-.0005	3/32	3/16
RS-32	FR-4"	4	-.0008	5 1/2	-.0010	1 1/2	-.0005	3/32	3/16
RS-34	FR-4 1/4"	4 1/4	-.0008	6	-.0010	1 5/8	-.0005	1/8	3/16
RS-36	FR-4 1/2"	4 1/2	-.0008	6 1/4	-.0010	1 5/8	-.0005	1/8	3/16
RS-38	FR-4 3/4"	4 3/4	-.0008	6 3/4	-.0010	1 5/8	-.0005	1/8	3/16
RS-40	FR-5"	5	-.0010	7	-.0012	1 3/4	-.0005	1/8	1/4
RS-42	FR-5 1/4"	5 1/4	-.0010	7 1/4	-.0012	1 3/4	-.0005	1/8	1/4
RS-44	FR-5 1/2"	5 1/2	-.0010	7 1/2	-.0012	1 7/8	-.0005	1/8	1/4
RS-46	FR-5 3/4"	5 3/4	-.0010	8	-.0012	1 7/8	-.0005	3/16	1/4
RS-48	FR-6"	6	-.0010	8 1/4	-.0012	2	-.0005	3/16	1/4

DOUBLE ROW		BORE (B)		OUTSIDE DIA. (D)		WIDTH (W)		Corner Radius R	Roller Dia.
Reassigned Number	Old Number	Nominal Dia. In.	Tolerance +.0000	Nominal Dia. In.	Tolerance +.0000	In.	Tolerance +.000		
RD-10	FRD-1 1/4"	1 1/4	-.0005	2 1/16	-.0006	2 1/4	-.0005	1/32	1/8
RD-11	FRD-1 3/8"	1 3/8	-.0005	2 1/4	-.0006	2 1/4	-.0005	1/32	1/8
RD-12	FRD-1 1/2"	1 1/2	-.0005	2 3/4	-.0006	2 3/8	-.0005	1/16	1/8
RD-13	FRD-1 5/8"	1 5/8	-.0005	2 5/8	-.0006	2 3/8	-.0005	1/16	1/8
RD-14	FRD-1 3/4"	1 3/4	-.0005	2 3/4	-.0006	2 3/8	-.0005	1/16	1/8
RD-15	FRD-1 7/8"	1 7/8	-.0005	3	-.0006	2 3/8	-.0005	1/16	1/8
RD-16	FRD-2"	2	-.0005	3 1/4	-.0006	2 3/8	-.0005	1/16	1/8
RD-18	FRD-2 1/4"	2 1/4	-.0006	3 1/2	-.0008	2 1/2	-.0005	3/32	1/8
RD-20	FRD-2 1/2"	2 1/2	-.0006	3 3/4	-.0008	2 1/2	-.0005	3/32	1/8
RD-22	FRD-2 3/4"	2 3/4	-.0006	4	-.0008	2 3/4	-.0005	3/32	1/8
RD-24	FRD-3"	3	-.0006	4 1/2	-.0008	2 3/4	-.0005	3/32	3/16
RD-26	FRD-3 1/4"	3 1/4	-.0008	4 3/4	-.0010	2 3/4	-.0005	3/32	3/16
RD-28	FRD-3 1/2"	3 1/2	-.0008	5	-.0010	3	-.0005	3/32	3/16
RD-30	FRD-3 3/4"	3 3/4	-.0008	5 1/4	-.0010	3	-.0005	3/32	3/16
RD-32	FRD-4"	4	-.0008	5 1/2	-.0010	3	-.0005	3/32	3/16
RD-34	FRD-4 1/4"	4 1/4	-.0008	6	-.0010	3 1/4	-.0005	1/8	3/16
RD-36	FRD-4 1/2"	4 1/2	-.0008	6 1/4	-.0010	3 1/4	-.0005	1/8	3/16
RD-38	FRD-4 3/4"	4 3/4	-.0008	6 3/4	-.0010	3 1/4	-.0005	1/8	3/16
RD-40	FRD-5"	5	-.0010	7	-.0012	3 1/2	-.0005	1/8	3/16
RD-42	FRD-5 1/4"	5 1/4	-.0010	7 1/4	-.0012	3 1/2	-.0005	1/8	3/16
RD-44	FRD-5 1/2"	5 1/2	-.0010	7 1/2	-.0012	3 3/4	-.0005	1/8	1/4
RD-46	FRD-5 3/4"	5 3/4	-.0010	8	-.0012	3 3/4	-.0005	3/16	1/4
RD-48	FRD-6"	6	-.0010	8 1/4	-.0012	4	-.0005	3/16	1/4

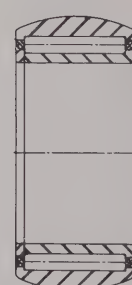
MESSINGER

Messinger bearings are designed primarily to carry heavy loads for the maximum length of service, and to fit into the smallest possible space. A few of the conventional bearing designs, in sizes ranging from 3" to 144" are pictured here. However, bearings that are combinations of these forms, or bearings of any other forms required by specific design conditions are available.

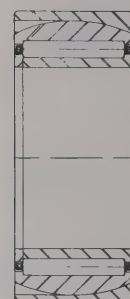
The design and production of each job is regarded as an individual project and is given individual engineering thought. It is not necessary for the machinery manufacturer to design his machine to fit catalog types or sizes. Messinger is accustomed to making bearings to any dimensions required or to modifying the type of internal design of the bearings to suit any operating conditions.

**JOURNAL
ROLLER
BEARING**

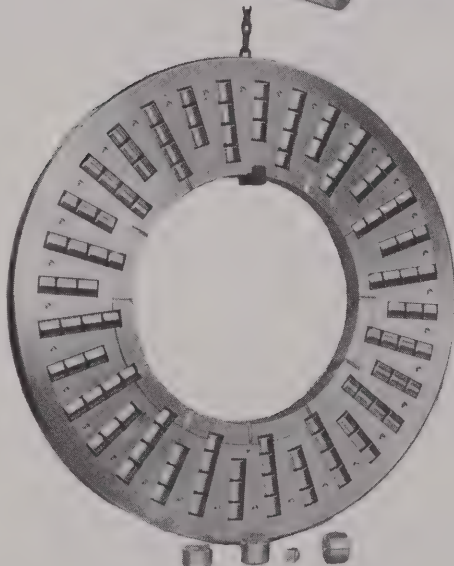
Journal Roller
with Inner and
Outer Races



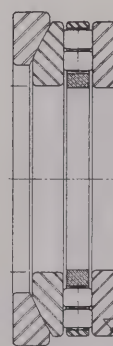
Self-Aligning
Roller Bearing



Self-Aligning
Roller Bearing
with Aligning
Ring

**ROLLER
THRUST
BEARING**

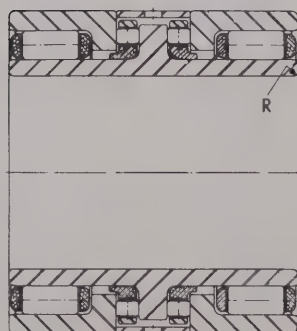
Single Acting
Thrust Bearing



Single Acting
Self-Aligning
Thrust Bearing



Double Acting
Thrust Bearing

**COMBINATION
RADIAL
AND
ROLLER
BEARINGS**

The typical COMBINATION RADIAL and THRUST Roller Bearing Unit consists of two radial roller bearings at each end with the addition of an inside flange on the inboard end of the outer race. This flange takes over the function of one washer of the double-acting thrust bearing. There is a center washer integral with the inner sleeve which assumes the duty of the center washer of the double-acting thrust. This design reduces the usual total number of hardened steel races from seven to three. These bearings are widely used in paper mills, steel rolling mills and for non-ferrous rolling mills.

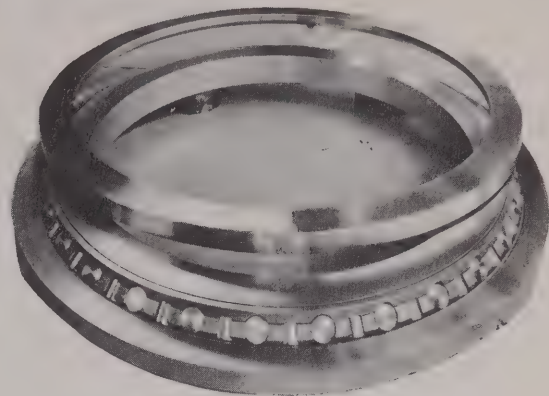
COMPLETE CATALOG AVAILABLE ON REQUEST

NEED HELP ON BEARINGS—CALL US

MESSINGER "X" ROLLER BEARINGS

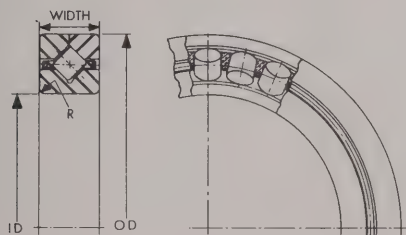
Where sustained accuracy is important and the revolving parts must not deviate a single thousandth of an inch even after years of service—the X-Bearing is surely indicated.

This type comprises a complete system of bearings. It is frequently called a multi-direction bearing because it can carry the load in three directions—thrust in either direction, and radial. It is sometimes designed to replace four bearings—two radial and two thrust. It is ideal for such installations as vertical boring mill tables and revolving platforms supporting radar towers where high wind pressure is involved.



SIZE RANGE

The following sizes are intended to suggest the wide variety of these bearings which we can furnish. Other sizes are readily available on request. When required for certain applications, the inner race can be split instead of the outer race. Load capacities, fit allowances and application designs will be rendered confidentially without cost or obligation.



I.D.	O.D.	WIDTH	R
4.000	6.250	1.125	.10
4.250	6.500	1.125	.10
4.500	6.750	1.125	.10
4.750	7.000	1.125	.10
6.000	8.250	1.125	.10
6.000	9.000	1.500	.11
6.250	8.500	1.125	.10
6.250	9.250	1.500	.11
8.000	10.250	1.125	.10
8.000	11.000	1.500	.11
8.000	11.500	1.750	.12
8.250	10.500	1.125	.10
9.000	11.250	1.125	.10
9.000	12.000	1.500	.11
9.000	12.500	1.750	.12
9.000	13.000	2.000	.13
10.000	12.250	1.125	.10
10.000	13.000	1.500	.11
10.000	14.000	2.000	.13
10.000	14.500	2.250	.15
12.000	14.250	1.125	.10
12.000	15.500	1.750	.12
12.000	16.000	2.000	.13
12.000	17.750	2.875	.16
14.000	16.250	1.125	.10
14.000	17.500	1.750	.12
14.000	18.000	2.000	.13
14.000	19.750	2.875	.16

I.D.	O.D.	WIDTH	R
16.000	19.000	1.500	.11
16.000	20.000	2.000	.13
16.000	20.500	2.250	.15
16.000	22.750	3.375	.18
18.000	21.000	1.500	.11
18.000	22.000	2.000	.13
18.000	23.750	2.875	.16
18.000	26.000	4.000	.20
20.000	23.500	1.750	.12
20.000	24.500	2.250	.15
20.000	26.750	3.375	.18
20.000	29.000	4.500	.22
22.000	25.500	1.750	.12
22.000	27.750	2.875	.16
22.000	28.750	3.375	.18
22.000	32.250	5.125	.25
24.000	27.500	1.750	.12
24.000	29.750	2.875	.16
24.000	30.750	3.375	.18
24.000	34.250	5.125	.25
26.000	30.000	2.000	.13
26.000	32.750	3.375	.18
26.000	34.000	4.000	.20
26.000	37.250	5.625	.31
28.000	32.000	2.000	.13
28.000	34.750	3.375	.18
28.000	37.000	4.500	.22
28.000	40.500	6.250	.37

I.D.	O.D.	WIDTH	R
35.000	40.750	2.875	.16
35.000	44.000	4.500	.22
35.000	45.250	5.125	.25
35.000	48.500	6.750	.43
40.000	45.750	2.875	.16
40.000	49.000	4.500	.22
40.000	50.250	5.125	.25
40.000	53.500	6.750	.43
50.000	56.750	3.375	.18
50.000	59.000	4.500	.22
50.000	61.250	5.625	.31
50.000	63.500	6.750	.43
60.000	68.000	4.000	.20
60.000	70.250	5.125	.25
60.000	71.250	5.625	.31
60.000	73.500	6.750	.43
70.000	79.000	4.500	.22
70.000	80.250	5.125	.25
70.000	82.500	6.250	.37
70.000	83.500	6.750	.43
80.000	90.250	5.125	.25
80.000	91.250	5.625	.31
80.000	92.500	6.250	.37
80.000	93.500	6.750	.43
90.000	101.250	5.625	.31
90.000	102.500	6.250	.37
90.000	103.500	6.750	.43
100.000	113.500	6.750	.43

SPECIAL DESIGNS

It is not necessary for the machinery manufacturer to design his machine to fit catalog types or sizes. Messinger is accustomed to making bearings to any dimensions required or to modifying the

type of internal design of the bearings to suit any operating conditions. The design and production of each job is regarded as an individual project and is given individual engineering thought.

NEED HELP ON BEARINGS—CALL US

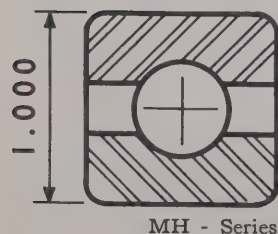
MESSINGER FEATHERWEIGHT BEARINGS

Messinger Featherweight bearings offer unlimited possibilities for savings in weight, space and cost. These bearings are available as either Radial, Angular Contact or 4-Point Contact bearings.

In addition to the ball bearings shown, we can furnish "X" Type Roller Bearings or straight Cylindrical type Roller Bearings in sizes from and including the "ME" series upwards.

IMPORTANT! CONSULT US FOR ENGINEERING AND APPLICATION DETAILS

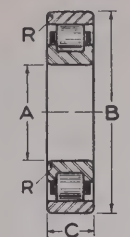
Drawings below show actual cross-section size



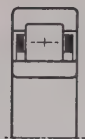
BASIC NO.	I.D.	O.D. MA-Series ($\frac{1}{4}$ " width)	O.D. MB-Series ($\frac{3}{16}$ " width)	O.D. MC-Series ($\frac{3}{8}$ " width)	O.D. MD-Series ($\frac{1}{2}$ " width)	O.D. ME-Series ($\frac{1}{2}$ " width)	O.D. MF-Series ($\frac{3}{8}$ " width)	O.D. MG-Series ($\frac{3}{4}$ " width)	O.D. MH-Series (1" width)
200	2.000	2.500	2.625						
225	2.250	2.750	2.875						
250	2.500	3.000	3.125						
275	2.750	3.250	3.375						
300	3.000	3.500	3.625	3.750	3.875				
350	3.500	4.000	4.125	4.250	4.375				
400	4.000	4.500	4.625	4.750	4.875	5.000	5.250	5.500	6.000
450	4.500	5.000	5.125	5.250	5.375	5.500			
500	5.000	5.500	5.625	5.750	5.875	6.000	6.250	6.500	7.000
550	5.500	6.000	6.125	6.250	6.375	6.500			
600	6.000	6.500	6.625	6.750	6.875	7.000	7.250	7.500	8.000
650	6.500	7.000	7.125	7.250	7.375				
700	7.000	7.500	7.625	7.750	7.875	8.000	8.250	8.500	
750	7.500	8.000	8.125	8.250	8.375				
800	8.000	8.500	8.625	8.750	8.875	9.000	9.250	9.500	10.000
850	8.500	9.000	9.125	9.250	9.375				
900	9.000	9.500	9.625	9.750	9.875	10.000	10.250	10.500	
950	9.500	10.000	10.125	10.250	10.375				
1000	10.000	10.500	10.625	10.750	10.875	11.000	11.250	11.500	12.000
1050	10.500	11.000	11.125						
1100	11.000	11.500	11.625	11.750	11.875	12.000			
1150	11.500	12.000	12.125						
1200	12.000	12.500	12.625	12.750	12.875	13.000	13.250	13.500	14.000
1250	12.500	13.000	13.125						
1300	13.000	13.500	13.625						
1350	13.500	14.000	14.125						
1400	14.000	14.500	14.625	14.750	14.875	15.000	15.250	15.500	16.000
1450	14.500	15.000	15.125						
1500	15.000	15.500	15.625						
1600	16.000	16.500	16.625	16.750	16.875	17.000	17.250	17.500	18.000
1800	18.000			18.750	18.875	19.000	19.250	19.500	20.000
2000	20.000			20.750	20.875	21.000	21.250	21.500	22.000
2200	22.000			22.750	22.875	23.000	23.250	23.500	24.000
2400	24.000			24.750	24.875	25.000	25.250	25.500	26.000
2600	26.000			26.750	26.875	27.000	27.250	27.500	28.000
2800	28.000			28.750	28.875	29.000	29.250	29.500	30.000
3000	30.000			30.750	30.875	31.000	31.250	31.500	32.000
3200	32.000			32.750	32.875	33.000	33.250	33.500	34.000
3400	34.000			34.750	34.875	35.000	35.250	35.500	36.000
3600	36.000			36.750	36.875	37.000	37.250	37.500	38.000
3800	38.000			38.750	38.875	39.000	39.250	39.500	40.000
4000	40.000					41.000	41.250	41.500	42.000
4200	42.000					43.000	43.250	43.500	44.000
4400	44.000					45.000	45.250	45.500	46.000
4600	46.000					47.000	47.250	47.500	48.000
4800	48.000					49.000	49.250	49.500	50.000
5000	50.000					51.000	51.250	51.500	52.000
5200	52.000						53.250	53.500	54.000
5400	54.000						55.250	55.500	56.000
5600	56.000						57.250	57.500	58.000
5800	58.000								60.000
6000	60.000								62.000

NEED HELP ON BEARINGS—CALL US

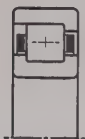
NORMA-HOFFMANN PRECISION ROLLER BEARINGS (Metric Type)



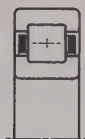
Std. (R) Type



(E) Type



(L) One-Lipped Type



(LL) Two-Lipped Type



(RR) Full Roller Type

LIGHT SERIES

S.A.E. No.	Std. (R) Type	(E) Type	(L) One Lipped Type	(LL) Two Lipped Type	(RR) Full Type	BORE (A)		O. DIA. (B)		WIDTH (C)		S.A.E. No.
						Mm	Inches	Mm	Inches	Mm	Inches	
200	R-110	.....	.....	.....	.....	10	.3937	30	1.1811	9	.354	200
201	R-112	.....	.....	.....	.....	12	.4724	32	1.2598	10	.394	201
202	R-115	R-115-E	.....	.....	.....	15	.5906	35	1.3780	11	.433	202
203	R-117	R-117-E	R-117-L	R-117-LL	*R-117-RR	17	.6693	40	1.5748	12	.472	203
204	R-120	R-120-E	R-120-L	R-120-LL	R-120-RR	20	.7874	47	1.8504	14	.551	204
205	R-125	R-125-E	R-125-L	R-125-LL	R-125-RR	25	.9843	52	2.0472	15	.591	205
206	R-130	*R-130-E	R-130-L	R-130-LL	*R-130-RR	30	1.1811	62	2.4409	16	.630	206
207	R-135	R-135-E	R-135-L	R-135-LL	*R-135-RR	35	1.3780	72	2.8346	17	.669	207
208	R-140	R-140-E	R-140-L	R-140-LL	.....	40	1.5748	80	3.1496	18	.709	208
209	R-145	R-145-E	R-145-L	R-145-LL	*R-145-RR	45	1.7717	85	3.3465	19	.748	209
210	R-150	R-150-E	R-150-L	R-150-LL	*R-150-RR	50	1.9685	90	3.5433	20	.787	210
211	R-155	*R-155-E	*R-155-L	R-155-LL	*R-155-RR	55	2.1654	100	3.9370	21	.827	211
212	R-160	*R-160-E	R-160-L	R-160-LL	.....	60	2.3622	110	4.3307	22	.866	212
213	R-165	*R-165-E	R-165-L	R-165-LL	.....	65	2.5591	120	4.7244	23	.906	213
214	R-170	*R-170-E	R-170-L	R-170-LL	.....	70	2.7559	125	4.9213	24	.945	214
215	R-175	R-175-E	*R-175-L	R-175-LL	*R-175-RR	75	2.9528	130	5.1181	25	.984	215
216	R-180	R-180-E	R-180-L	R-180-LL	.....	80	3.1496	140	5.5118	26	1.024	216
217	R-185	*R-185-E	R-185-L	R-185-LL	.....	85	3.3465	150	5.9055	28	1.102	217
218	R-190	*R-190-E	R-190-L	.....	.....	90	3.5433	160	6.2992	30	1.181	218
219	R-195	.....	R-195-L	.....	.....	95	3.7402	170	6.6929	32	1.260	219
220	R-200	*R-200-E	R-200-L	.....	.....	100	3.9370	180	7.0866	34	1.339	220
221	R-205	.....	.....	.....	.....	105	4.1339	190	7.4803	36	1.417	221
222	R-210	*R-210-E	.....	.....	.....	110	4.3307	200	7.8740	38	1.496	222
228	R-240	.....	R-240-L	.....	.....	140	5.5118	250	9.8425	42	1.654	228

MEDIUM SERIES

301	*R-312	R-312-E	*R-312-L	*R-312-LL	.....	12	.4724	37	1.4567	12	.472	301
302	*R-315	*R-315-E	R-315-L	R-315-LL	.....	15	.5906	42	1.6535	13	.512	302
303	R-317	*R-317-E	*R-317-L	*R-317-LL	R-317-RR	17	.6693	47	1.8504	14	.551	303
304	R-320	.....	*R-320-L	.....	*R-320-RR	20	.7874	52	2.0472	15	.591	304
305	R-325	R-325-E	*R-325-L	R-325-LL	*R-325-RR	25	.9843	62	2.4409	17	.669	305
306	R-330	R-330-E	R-330-L	R-330-LL	R-330-RR	30	1.1811	72	2.8346	19	.748	306
307	R-335	R-335-E	R-335-L	R-335-LL	*R-335-RR	35	1.3780	80	3.1496	21	.827	307
308	R-340	R-340-E	R-340-L	R-340-LL	R-340-RR	40	1.5748	90	3.5433	23	.906	308
309	R-345	*R-345-E	R-345-L	R-345-LL	*R-345-RR	45	1.7717	100	3.9370	25	.984	309
310	R-350	R-350-E	R-350-L	R-350-LL	*R-350-RR	50	1.9685	110	4.3307	27	1.063	310
311	*R-355	*R-355-E	R-355-L	R-355-LL	.....	55	2.1654	120	4.7244	29	1.142	311
312	R-360	R-360-E	*R-360-L	R-360-LL	.....	60	2.3622	130	5.1181	31	1.220	312
313	R-365	*R-365-E	R-365-L	R-365-LL	*R-365-RR	65	2.5591	140	5.5118	33	1.299	313
314	R-370	R-370-E	R-370-L	R-370-LL	.....	70	2.7559	150	5.9055	35	1.378	314
315	R-375	*R-375-E	R-375-L	R-375-LL	*R-375-RR	75	2.9528	160	6.2992	37	1.457	315
316	R-380	R-380-E	.....	.....	.....	80	3.1496	170	6.6929	39	1.535	316
317	R-385	R-385-E	R-385-L	*R-385-LL	.....	85	3.3465	180	7.0866	41	1.614	317
318	R-390	R-390-E	*R-390-L	R-390-LL	.....	90	3.5433	190	7.4803	43	1.693	318
319	R-395	*R-395-E	*R-395-L	*R-395-LL	.....	95	3.7402	200	7.8740	45	1.772	319
320	R-400	*R-400-E	R-400-L	*R-400-LL	.....	100	3.9370	215	8.4646	47	1.850	320
321	R-405	.....	.....	.....	.....	105	4.1339	225	8.8583	49	1.929	321
322	R-410	*R-410-E	.....	.....	.....	110	4.3307	240	9.4488	50	1.969	322
324	*R-420	*R-420-E	.....	.....	.....	120	4.7244	260	10.2362	55	2.165	324
326	*R-430	*R-430-E	.....	.....	.....	130	5.1181	280	11.0236	58	2.283	326
328	.....	*R-440-E	.....	.....	.....	140	5.5118	300	11.8110	62	2.441	328
330	.....	*R-450-E	.....	.....	.....	150	5.9055	320	12.5984	65	2.559	330

HEAVY SERIES

407	R-535	.....	.....	*R-535-LL	R-535-RR	35	1.3780	100	3.9370	25	.984	407
411	R-555	*R-555-E	.....	.....	.....	55	2.1654	140	5.5118	33	1.299	411
412	R-560	R-560-E	.....	.....	.....	60	2.3622	150	5.9055	35	1.378	412
413	R-565	.....	.....	.....	.....	65	2.5591	160	6.2992	37	1.457	413
414	R-570	*R-570-E	.....	.....	.....	70	2.7559	180	7.0866	42	1.654	414
415	R-575	.....	.....	.....	.....	75	2.9528	190	7.4803	45	1.772	415
416	R-580	*R-580-E	.....	.....	.....	80	3.1496	200	7.8740	48	1.890	416
417	R-585	*R-585-E	.....	.....	.....	85	3.3465	210	8.2677	52	2.047	417
418	R-590	*R-590-E	.....	.....	.....	90	3.5433	225	8.8583	54	2.126	418
419	R-595	*R-595-E	.....	*R-595-LL	.....	95	3.7402	250	9.8425	55	2.165	419
420	R-600	.....	.....	.....	.....	100	3.9370	265	10.4331	60	2.362	420

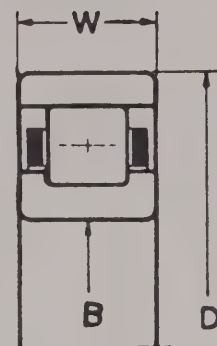
*Check for availability.

NEED HELP ON BEARINGS—CALL US

NORMA-HOFFMANN PRECISION ROLLER BEARINGS INCH TYPES

"RLS" LIGHT SERIES

BEARING NUMBER		Bore (B) Inches	O.D. (D) Inches	Width (W) Inches
Std. RLS	RLS-L One-Lip			
*RLS-18	*RLS-18 -L	2 $\frac{3}{4}$	5 $\frac{1}{4}$	1 $\frac{5}{16}$
*RLS-19	*RLS-19 -L	3	5 $\frac{3}{4}$	1 $\frac{1}{16}$
*RLS-19 $\frac{1}{2}$	*RLS-19 $\frac{1}{2}$ -L	3 $\frac{1}{4}$	6	1 $\frac{1}{16}$
RLS-20	*RLS-20 -L	3 $\frac{1}{2}$	6 $\frac{1}{2}$	1 $\frac{1}{8}$
RLS-20 $\frac{1}{2}$	*RLS-20 $\frac{1}{2}$ -L	3 $\frac{3}{4}$	6 $\frac{3}{4}$	1 $\frac{1}{8}$
*RLS-21	*RLS-21 -L	4	7 $\frac{1}{4}$	1 $\frac{1}{4}$
*RLS-21 $\frac{1}{2}$	*RLS-21 $\frac{1}{2}$ -L	4 $\frac{1}{4}$	7 $\frac{1}{2}$	1 $\frac{1}{4}$
*RLS-22	*RLS-22 -L	4 $\frac{1}{2}$	8	1 $\frac{5}{16}$
*RLS-22 $\frac{1}{2}$	*RLS-22 $\frac{1}{2}$ -L	4 $\frac{3}{4}$	8 $\frac{1}{4}$	1 $\frac{5}{16}$
RLS-23	*RLS-23 -L	5	9	1 $\frac{3}{8}$
*RLS-23 $\frac{1}{2}$	*RLS-23 $\frac{1}{2}$ -L	5 $\frac{1}{2}$	9 $\frac{1}{2}$	1 $\frac{3}{8}$
RLS-24	*RLS-24 -L	6	10 $\frac{1}{2}$	1 $\frac{9}{16}$
*RLS-24 $\frac{1}{2}$	*RLS-24 $\frac{1}{2}$ -L	6 $\frac{1}{2}$	11	1 $\frac{9}{16}$
*RLS-25	*RLS-25 -L	7	12	1 $\frac{3}{4}$
*RLS-25 $\frac{1}{2}$	*RLS-25 $\frac{1}{2}$ -L	7 $\frac{1}{2}$	12 $\frac{1}{2}$	1 $\frac{3}{4}$
*RLS-26	*RLS-26 -L	8	13	1 $\frac{3}{4}$



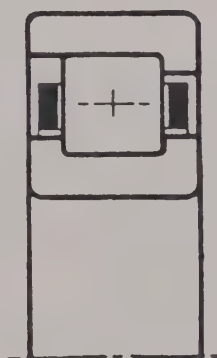
"RLS"
"RMS"
"RXLS"

Standard Type

Separable outer race type, permitting endwise "float" of shaft in relation to housing.

"RMS" TYPE — MEDIUM SERIES

RMS	*RMS -L	Bore (B) Inches	O.D. (D) Inches	Width (W) Inches
RMS-10	*RMS-10 -L	1	2 $\frac{1}{2}$	$\frac{3}{4}$
*RMS-11	*RMS-11 -L	1 $\frac{1}{8}$	2 $\frac{13}{16}$	1 $\frac{1}{16}$
RMS-12	*RMS-12 -L	1 $\frac{1}{4}$	3 $\frac{1}{8}$	$\frac{7}{8}$
RMS-12 $\frac{1}{2}$	*RMS-12 $\frac{1}{2}$ -L	1 $\frac{3}{8}$	3 $\frac{1}{2}$	$\frac{7}{8}$
*RMS-13	*RMS-13 -L	1 $\frac{1}{2}$	3 $\frac{3}{4}$	1 $\frac{5}{16}$
*RMS-13 $\frac{1}{2}$	*RMS-13 $\frac{1}{2}$ -L	1 $\frac{5}{8}$	4	1 $\frac{5}{16}$
*RMS-14	*RMS-14 -L	1 $\frac{3}{4}$	4 $\frac{1}{4}$	1 $\frac{1}{16}$
RMS-14 $\frac{1}{2}$	*RMS-14 $\frac{1}{2}$ -L	1 $\frac{7}{8}$	4 $\frac{1}{2}$	1 $\frac{1}{16}$
*RMS-15	*RMS-15 -L	2	4 $\frac{1}{2}$	1 $\frac{1}{16}$
*RMS-16	*RMS-16 -L	2 $\frac{1}{4}$	5	1 $\frac{1}{4}$
*RMS-17	*RMS-17 -L	2 $\frac{1}{2}$	5 $\frac{1}{2}$	1 $\frac{1}{4}$
*RMS-18	*RMS-18 -L	2 $\frac{3}{4}$	6 $\frac{1}{4}$	1 $\frac{3}{8}$
RMS-19	*RMS-19 -L	3	7	1 $\frac{9}{16}$
*RMS-19 $\frac{1}{2}$	*RMS-19 $\frac{1}{2}$ -L	3 $\frac{1}{4}$	7 $\frac{1}{2}$	1 $\frac{9}{16}$
*RMS-19 $\frac{3}{4}$	*RMS-19 $\frac{3}{4}$ -L	3 $\frac{3}{8}$	7 $\frac{1}{2}$	1 $\frac{9}{16}$
*RMS-20	*RMS-20 -L	3 $\frac{1}{2}$	8 $\frac{1}{8}$	1 $\frac{3}{4}$
*RMS-20 $\frac{1}{2}$	*RMS-20 $\frac{1}{2}$ -L	3 $\frac{3}{4}$	8 $\frac{1}{4}$	1 $\frac{3}{4}$
RMS-21	*RMS-21 -L	4	8 $\frac{1}{2}$	1 $\frac{3}{4}$
RMS-21 $\frac{1}{2}$	*RMS-21 $\frac{1}{2}$ -L	4 $\frac{1}{4}$	8 $\frac{3}{4}$	1 $\frac{3}{4}$
RMS-22	*RMS-22 -L	4 $\frac{1}{2}$	9 $\frac{1}{8}$	2
*RMS-22 $\frac{1}{2}$	*RMS-22 $\frac{1}{2}$ -L	4 $\frac{3}{4}$	10	2
RMS-23	*RMS-23 -L	5	10	2
*RMS-23 $\frac{1}{2}$	*RMS-23 $\frac{1}{2}$ -L	5 $\frac{1}{2}$	11	2
*RMS-24	*RMS-24 -L	6	12	2 $\frac{1}{4}$
*RMS-24 $\frac{1}{2}$	*RMS-24 $\frac{1}{2}$ -L	6 $\frac{1}{2}$	13	2 $\frac{1}{2}$
*RMS-25	*RMS-25 -L	7	13 $\frac{1}{2}$	2 $\frac{1}{2}$
*RMS-25 $\frac{1}{2}$	*RMS-25 $\frac{1}{2}$ -L	7 $\frac{1}{2}$	14 $\frac{1}{2}$	2 $\frac{3}{4}$
*RMS-26	*RMS-26 -L	8	15	2 $\frac{3}{4}$



"RLS-L"
"RMS-L"
(One-Lip Type)

The R-L Series have an integral flange in the outer race and can be employed for "location" thrust in one direction. When used at opposite ends of a shaft, with outer rings opposed they will take location thrust in either direction.

"RXLS" EXTRA LIGHT SERIES

Bearing No.	(B) In.	(D) In.	(W) In.
RXLS- 2	2	3 $\frac{5}{16}$	$\frac{5}{8}$
*RXLS- 2 $\frac{1}{8}$	2 $\frac{1}{8}$	3 $\frac{1}{16}$	$\frac{5}{8}$
RXLS- 2 $\frac{1}{4}$	2 $\frac{1}{4}$	3 $\frac{9}{16}$	$\frac{5}{8}$
*RXLS- 2 $\frac{3}{8}$	2 $\frac{3}{8}$	3 $\frac{3}{4}$	1 $\frac{1}{16}$
*RXLS- 2 $\frac{1}{2}$	2 $\frac{1}{2}$	3 $\frac{7}{8}$	1 $\frac{1}{16}$
*RXLS- 2 $\frac{5}{8}$	2 $\frac{5}{8}$	4 $\frac{1}{8}$	1 $\frac{1}{16}$
*RXLS- 2 $\frac{3}{4}$	2 $\frac{3}{4}$	4 $\frac{1}{8}$	1 $\frac{1}{16}$
*RXLS- 2 $\frac{7}{8}$	2 $\frac{7}{8}$	4 $\frac{1}{2}$	$\frac{3}{4}$
RXLS- 3	3	4 $\frac{1}{2}$	$\frac{3}{4}$
*RXLS- 3 $\frac{1}{8}$	3 $\frac{1}{8}$	4 $\frac{3}{4}$	$\frac{3}{4}$
RXLS- 3 $\frac{1}{4}$	3 $\frac{1}{4}$	4 $\frac{3}{4}$	$\frac{3}{4}$
*RXLS- 3 $\frac{3}{8}$	3 $\frac{3}{8}$	5	$\frac{3}{4}$
*RXLS- 3 $\frac{1}{2}$	3 $\frac{1}{2}$	5	$\frac{3}{4}$
*RXLS- 3 $\frac{5}{8}$	3 $\frac{5}{8}$	5 $\frac{1}{4}$	$\frac{3}{4}$
RXLS- 3 $\frac{3}{4}$	3 $\frac{3}{4}$	5 $\frac{1}{4}$	$\frac{3}{4}$
RXLS- 3 $\frac{7}{8}$	3 $\frac{7}{8}$	5 $\frac{5}{8}$	$\frac{7}{8}$
RXLS- 4	4	5 $\frac{5}{8}$	$\frac{7}{8}$
RXLS- 4 $\frac{1}{8}$	4 $\frac{1}{8}$	6	$\frac{7}{8}$
RXLS- 4 $\frac{1}{4}$	4 $\frac{1}{4}$	6	$\frac{7}{8}$
*RXLS- 4 $\frac{3}{8}$	4 $\frac{3}{8}$	6 $\frac{1}{4}$	$\frac{7}{8}$
*RXLS- 4 $\frac{1}{2}$	4 $\frac{1}{2}$	6 $\frac{1}{4}$	$\frac{7}{8}$
*RXLS- 4 $\frac{5}{8}$	4 $\frac{5}{8}$	6 $\frac{1}{2}$	$\frac{7}{8}$
*RXLS- 4 $\frac{3}{4}$	4 $\frac{3}{4}$	6 $\frac{1}{2}$	$\frac{7}{8}$
*RXLS- 4 $\frac{7}{8}$	4 $\frac{7}{8}$	7	1
*RXLS- 5	5	7	1
*RXLS- 5 $\frac{1}{8}$	5 $\frac{1}{8}$	7 $\frac{1}{4}$	1
*RXLS- 5 $\frac{1}{4}$	5 $\frac{1}{4}$	7 $\frac{1}{4}$	1
RXLS- 5 $\frac{3}{8}$	5 $\frac{3}{8}$	7 $\frac{1}{2}$	1
RXLS- 5 $\frac{1}{2}$	5 $\frac{1}{2}$	7 $\frac{1}{2}$	1
*RXLS- 5 $\frac{5}{8}$	5 $\frac{5}{8}$	7 $\frac{3}{4}$	1
*RXLS- 5 $\frac{3}{4}$	5 $\frac{3}{4}$	7 $\frac{3}{4}$	1
*RXLS- 5 $\frac{7}{8}$	5 $\frac{7}{8}$	8	1
RXLS- 6	6	8	1
*RXLS- 6 $\frac{1}{4}$	6 $\frac{1}{4}$	8 $\frac{1}{2}$	1 $\frac{1}{8}$
*RXLS- 6 $\frac{1}{2}$	6 $\frac{1}{2}$	8 $\frac{3}{4}$	1 $\frac{1}{8}$
*RXLS- 6 $\frac{3}{4}$	6 $\frac{3}{4}$	9	1 $\frac{1}{8}$
*RXLS- 7	7	9 $\frac{1}{2}$	1 $\frac{1}{4}$
*RXLS- 7 $\frac{1}{4}$	7 $\frac{1}{4}$	9 $\frac{3}{4}$	1 $\frac{1}{4}$
*RXLS- 7 $\frac{1}{2}$	7 $\frac{1}{2}$	10	1 $\frac{1}{4}$
*RXLS- 7 $\frac{3}{4}$	7 $\frac{3}{4}$	10 $\frac{1}{2}$	1 $\frac{3}{8}$
*RXLS- 8	8	10 $\frac{3}{4}$	1 $\frac{3}{8}$
*RXLS- 8 $\frac{1}{4}$	8 $\frac{1}{4}$	11	1 $\frac{3}{8}$
*RXLS- 8 $\frac{1}{2}$	8 $\frac{1}{2}$	11 $\frac{1}{2}$	1 $\frac{1}{2}$
*RXLS- 8 $\frac{3}{4}$	8 $\frac{3}{4}$	11 $\frac{3}{4}$	1 $\frac{1}{2}$
*RXLS- 9	9	12	1 $\frac{1}{2}$
*RXLS- 9 $\frac{1}{2}$	9 $\frac{1}{2}$	12 $\frac{3}{4}$	1 $\frac{5}{8}$
RXLS-10	10	13 $\frac{1}{4}$	1 $\frac{5}{8}$
RXLS-10 $\frac{1}{2}$	10 $\frac{1}{2}$	14	1 $\frac{3}{4}$
*RXLS-11	11	14 $\frac{1}{2}$	1 $\frac{3}{4}$
*RXLS-11 $\frac{1}{2}$	11 $\frac{1}{2}$	15 $\frac{1}{4}$	1 $\frac{7}{8}$
RXLS-12	12	16	2

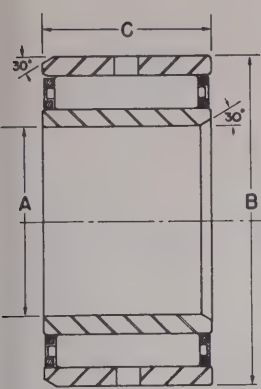
NOTE: "RXLS" Roller Bearings are dimensionally interchangeable with "XLS" Ball Bearings shown on Page 59.

*Check for availability.

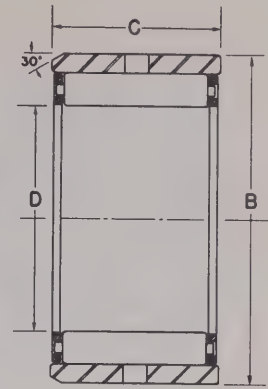
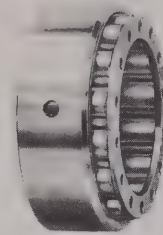
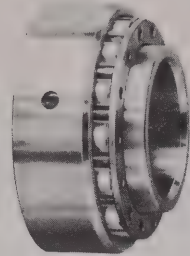
ROLLWAY ROLLER BEARINGS

200 AND 300
METRIC SERIES

STEEL CAGE
TYPE



D Type—With Solid Inner
and Outer Race



B Type—Roller Assembly
With Solid Outer Race

"D" Type Number With Inner & Outer Race	"B" Type Number With Outer Race Only	Bore Inner Race A		O.D. Outer Race B		Wid. C	Bore Roller Assembly D	Roller Diam.
		Mm	Inches	Mm	Inches	Inch.	Inch.	Inch.
D-305-18	B-305-18	25	.9843	62	2.4409	1 1/8	1 1/4	7/16
D-206-13	B-206-13	30	1.1811	62	2.4409	1 1/8	1 1/2	5/16
D-206-18	B-206-18	30	1.1811	62	2.4409	1 1/8	1 1/2	5/16
D-306-15	B-306-15	30	1.1811	72	2.8346	1 1/8	1 1/2	1/2
D-306	B-306	30	1.1811	72	2.8346	1 1/8	1 1/2	1/2
D-207-15	B-207-15	35	1.3780	72	2.8346	1 1/8	1 3/4	3/8
D-207	B-207	35	1.3780	72	2.8346	1 1/8	1 3/4	3/8
D-207-19	B-207-19	35	1.3780	72	2.8346	1 1/8	1 3/4	3/8
D-307-16	B-307-16	35	1.3780	80	3.1496	1 1/8	1 3/4	1/2
D-307	B-307	35	1.3780	80	3.1496	1 1/8	1 3/4	1/2
D-208-16	B-208-16	40	1.5748	80	3.1496	1 1/8	2	3/8
D-208	B-208	40	1.5748	80	3.1496	1 1/8	2	3/8
D-208-22	B-208-22	40	1.5748	80	3.1496	1 1/8	2	3/8
D-308	B-308	40	1.5748	90	3.5433	1 1/8	2	9/16
D-209-18	B-209-18	45	1.7717	85	3.3465	1 1/8	2 1/8	3/8
D-209	B-209	45	1.7717	85	3.3465	1 1/8	2 1/8	3/8
D-209-25	B-209-25	45	1.7717	85	3.3465	1 1/8	2 1/8	3/8
D-309-21	B-309-21	45	1.7717	100	3.9370	1 1/8	2 1/4	5/8
D-309	B-309	45	1.7717	100	3.9370	1 1/8	2 1/4	5/8
D-210	B-210	50	1.9685	90	3.5433	1 1/8	2 3/8	3/8
D-210-20	B-210-20	50	1.9685	90	3.5433	1 1/8	2 3/8	3/8
D-210-28	B-210-28	50	1.9685	90	3.5433	1 1/8	2 3/8	3/8
D-210-56*	B-210-56*	50	1.9685	90	3.5433	1 1/8	2 3/8	3/8
D-310	B-310	50	1.9685	110	4.3307	1 3/4	2 1/2	1 1/16
D-211	B-211	55	2.1654	100	3.9370	1 1/8	2 5/8	7/16
D-211-29	B-211-29	55	2.1654	100	3.9370	1 1/8	2 5/8	7/16
D-211-58*	B-211-58*	55	2.1654	100	3.9370	1 1/8	2 5/8	7/16
D-311	B-311	55	2.1654	120	4.7244	1 1/8	2 3/4	1 1/16
D-212	B-212	60	2.3622	110	4.3307	1 1/8	2 7/8	3/2
D-212-31	B-212-31	60	2.3622	110	4.3307	1 1/8	2 7/8	3/2
D-212-62*	B-212-62*	60	2.3622	110	4.3307	1 1/8	2 7/8	3/2
D-312	B-312	60	2.3622	130	5.1181	2 1/8	3	3/4
D-213	B-213	65	2.5591	120	4.7244	1 1/2	3 1/8	1/2
D-213-33	B-213-33	65	2.5591	120	4.7244	1 1/2	3 1/8	1/2
D-213-66*	B-213-66*	65	2.5591	120	4.7244	1 1/2	3 1/8	1/2
D-313-35	B-313-35	65	2.5591	140	5.5118	2 1/8	3 1/4	1 1/16
D-313	B-313	65	2.5591	140	5.5118	2 1/8	3 1/4	1 1/16
D-214	B-214	70	2.7559	125	4.9213	1 1/2	3 1/2	1/2
D-214-26	B-214-26	70	2.7559	125	4.9213	1 1/2	3 1/2	1/2
D-214-38	B-214-38	70	2.7559	125	4.9213	1 1/2	3 1/2	1/2
D-214-76*	B-214-76*	70	2.7559	125	4.9213	1 1/2	3 1/2	1/2
D-314	B-314	70	2.7559	150	5.9055	2 1/2	3 1/2	7/8
D-215	B-215	75	2.9528	130	5.1181	1 5/8	3 1/2	1/2
D-215-28	B-215-28	75	2.9528	130	5.1181	1 5/8	3 1/2	1/2
D-215-42	B-215-42	75	2.9528	130	5.1181	1 5/8	3 1/2	1/2
D-215-84*	B-215-84*	75	2.9528	130	5.1181	1 5/8	3 1/2	1/2
D-315-39	B-315-39	75	2.9528	160	6.2992	2 1/8	3 3/4	1 1/16
D-315	B-315	75	2.9528	160	6.2992	2 1/8	3 3/4	1 1/16
D-216	B-216	80	3.1496	140	5.5118	1 3/4	3 3/4	9/16
D-216-29	B-216-29	80	3.1496	140	5.5118	1 3/4	3 3/4	9/16
D-216-42	B-216-42	80	3.1496	140	5.5118	1 3/4	3 3/4	9/16
D-216-84*	B-216-84*	80	3.1496	140	5.5118	1 3/4	3 3/4	9/16
D-316	B-316	80	3.1496	170	6.6929	2 1/16	4	1

*Two Roller Assemblies Required.

"D" Type Number With Inner & Outer Race	"B" Type Number With Outer Race Only	Bore Inner Race A		O.D. Outer Race B		Wid. C	Bore Roller Assembly D	Roller Diam.
		Mm	Inches	Mm	Inches	Inch.	Inch.	Inch.
D-217	B-217	85	3.3465	150	5.9055	1 1/8	4	5/8
D-217-44	B-217-44	85	3.3465	150	5.9055	1 1/8	4	5/8
D-217-88*	B-217-88*	85	3.3465	150	5.9055	1 1/8	4	5/8
D-317-44	B-317-44	85	3.3465	180	7.0866	2 1/8	4 1/4	1
D-317	B-317	85	3.3465	180	7.0866	2 1/8	4 1/4	1
D-218	B-218	90	3.5433	160	6.2992	2 1/8	4 1/4	1 1/16
D-218-45	B-218-45	90	3.5433	160	6.2992	2 1/8	4 1/4	1 1/16
D-218-90*	B-218-90*	90	3.5433	160	6.2992	2 1/8	4 1/4	1 1/16
D-318-48	B-318-48	90	3.5433	190	7.4803	3	4 1/2	1 1/16
D-219	B-219	95	3.7402	170	6.6929	2 3/8	4 1/2	3/4
D-219-48	B-219-48	95	3.7402	170	6.6929	2 3/8	4 1/2	3/4
D-219-96*	B-219-96*	95	3.7402	170	6.6929	2 3/8	4 1/2	3/4
D-319	B-319	95	3.7402	200	7.8740	3 1/8	4 3/4	1 1/8
D-319-50	B-319-50	95	3.7402	200	7.8740	3 1/8	4 3/4	1 1/8
D-220-37	B-220-37	100	3.9370	180	7.0866	2 5/8	4 3/4	3/4
D-220	B-220	100	3.9370	180	7.0866	2 5/8	4 3/4	3/4
D-220-52	B-220-52	100	3.9370	180	7.0866	2 5/8	4 3/4	3/4
D-220-104*	B-220-104*	100	3.9370	180	7.0866	2 5/8	4 3/4	3/4
D-320	B-320	100	3.9370	215	8.4646	3 1/4	5	1 1/4
D-222-41	B-222-41	110	4.3307	200	7.8740	2 5/8	5 1/4	7/8
D-222	B-222	110	4.3307	200	7.8740	2 5/8	5 1/4	7/8
D-222-56	B-222-56	110	4.3307	200	7.8740	2 5/8	5 1/4	7/8
D-222-112*	B-222-112*	110	4.3307	200	7.8740	2 5/8	5 1/4	7/8
D-322	B-322	110	4.3307	240	9.4488	3 3/8	5 1/2	1 3/8
D-322-60	B-322-60	110	4.3307	240	9.4488	3 3/8	5 1/2	1 3/8
D-224-45	B-224-45	120	4.7244	215	8.4646	2 1/8	5 5/8	1 5/16
D-224	B-224	120	4.7244	215	8.4646	2 1/8	5 5/8	1 5/16
D-224-62	B-224-62	120	4.7244	215	8.4646	2 1/8	5 5/8	1 5/16
D-224-124*	B-224-124*	120	4.7244	215	8.4646	2 1/8	5 5/8	1 5/16
D-324	B-324	120	4.7244	260	10.2362	4 3/8	6 1/8	1 3/8
D-226	B-226	130	5.1181	230	9.0551	3 1/8	6 1/8	1
D-226-68	B-226-68	130	5.1181	230	9.0551	3 1/8	6 1/8	1
D-226-136*	B-226-136*	130	5.1181	230	9.0551	3 1/8	6 1/8	1
D-226-156*	SB-226-156*	130	5.1181	215	8.4646	2 1/8	6	3/4
D-326	B-326	130	5.1181	280	11.0236	4 3/8	6 3/8	1 1/2
D-228	B-228	140	5.5118	250	9.8425	3 1/4	6 3/8	1 1/16
D-228-76	B-228-76	140	5.5118	250	9.8425	3 1/4	6 3/8	1 1/16
D-228-152*	B-228-152*	140	5.5118	250	9.8425	3 1/4	6 3/8	1 1/16
D-230	B-230	150	5.9055	270	10.6299	3 1/2	7 1/8	1 1/16
D-230-76	B-230-76	150	5.9055	270	10.6299	3 1/2	7 1/8	1 1/16
D-232	B-232	160	6.2992	290	11.4173	3 3/8	7 3/8	1 1/4
D-232-78	B-232-78	160	6.2992	290	11.4173	3 3/8	7 3/8	1 1/4
D-232-156*	B-232-156*	160	6.2992	290	11.4173	3 3/8	7 3/8	1 1/4
D-234	B-234	170	6.6929	310	12.2047	4 1/8	8 1/8	1 3/8
D-234-86	B-234-86	170	6.6929	310	12.2047	4 1/8	8 1/8	1 3/8
D-234-172*	B-234-172*	170	6.6929	310	12.2047	4 1/8	8 1/8	1 3/8
D-236	B-236	180	7.0866	320	12.5984	4 1/2	8 1/2	1 3/8
D-236-94	B-236-94	180	7.0866	320	12.5984	4 1/2	8 1/2	1 3/8
SD-240	SB-240	200	7.8740	340	13.3858	4 3/4	9 1/4	1 3/8
SD-240-110	SB-240-110	200	7.8740	340	13.3858	4 3/4	9 1/4	1 3/8
SD-244	SB-244	220	8.6614	380	14.9606	5 1/4	10 7/16	1 3/8
SD-244-110	SB-244-110	220	8.6614	380	14.9606	5 1/4	10 7/16	1 3/8

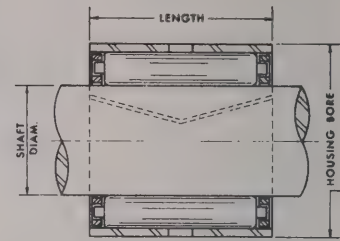
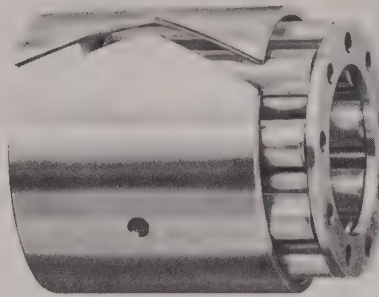
NEED HELP ON BEARINGS—CALL US

ROLLWAY ROLLER BEARINGS WITH PLANISHED, SPLIT OUTER SLEEVE

INCH SERIES—TYPE A AND PA

ROLLER ASSEMBLY WITH PLANISHED OUTER SLEEVE

When it is convenient to harden the shaft and not the housing the Type A Rollway Bearings with planished sleeves may be considered. For maximum capacity a minimum hardness of 54 Rockwell C Scale is recommended for the shaft.



SOME SIZES
NOT CURRENTLY
IN PRODUCTION.
CHECK FOR
AVAILABILITY.

TYPE A

Bearing No.	BEARING SIZE			Roller Dia.
	Bore	O.D.	Lgth.	
A080416	$\frac{1}{2}$	$1\frac{1}{16}$	1	$\frac{3}{4}$
*A090424	$\frac{5}{8}$	$1\frac{3}{8}$	$1\frac{1}{2}$	$\frac{3}{4}$
A100212	$\frac{3}{8}$	$1\frac{1}{8}$	$\frac{3}{4}$	$\frac{5}{8}$
A100216	$\frac{5}{8}$	$1\frac{1}{8}$	1	$\frac{5}{8}$
*A100220	$\frac{5}{8}$	$1\frac{1}{8}$	$1\frac{1}{4}$	$\frac{5}{8}$
A100224	$\frac{5}{8}$	$1\frac{1}{8}$	$1\frac{1}{2}$	$\frac{5}{8}$
A100228	$\frac{5}{8}$	$1\frac{1}{8}$	$1\frac{3}{4}$	$\frac{5}{8}$
A100232	$\frac{5}{8}$	$1\frac{1}{8}$	2	$\frac{5}{8}$
*A100416	$\frac{5}{8}$	$1\frac{3}{8}$	1	$\frac{3}{4}$
A100424	$\frac{5}{8}$	$1\frac{3}{8}$	$1\frac{1}{2}$	$\frac{3}{4}$
*A100432	$\frac{5}{8}$	$1\frac{3}{8}$	2	$\frac{3}{4}$
A100436	$\frac{5}{8}$	$1\frac{3}{8}$	$2\frac{1}{4}$	$\frac{3}{4}$
*A120216	$\frac{3}{4}$	$1\frac{3}{8}$	1	$\frac{5}{8}$
A120220	$\frac{3}{4}$	$1\frac{3}{8}$	$1\frac{1}{4}$	$\frac{5}{8}$
*A120224	$\frac{3}{4}$	$1\frac{3}{8}$	$1\frac{1}{2}$	$\frac{5}{8}$
*A120228	$\frac{3}{4}$	$1\frac{3}{8}$	$1\frac{3}{4}$	$\frac{5}{8}$
*A120232	$\frac{3}{4}$	$1\frac{3}{8}$	2	$\frac{5}{8}$
A120236	$\frac{3}{4}$	$1\frac{3}{8}$	$2\frac{1}{4}$	$\frac{5}{8}$
*A120424	$\frac{3}{4}$	$1\frac{5}{8}$	$1\frac{1}{2}$	$\frac{3}{4}$
A120428	$\frac{3}{4}$	$1\frac{5}{8}$	$1\frac{3}{4}$	$\frac{3}{4}$
*A120432	$\frac{3}{4}$	$1\frac{5}{8}$	2	$\frac{3}{4}$
A120440	$\frac{3}{4}$	$1\frac{5}{8}$	$2\frac{1}{2}$	$\frac{3}{4}$
A120516	$\frac{3}{4}$	$1\frac{7}{8}$	1	$\frac{5}{8}$
A120524	$\frac{3}{4}$	$1\frac{7}{8}$	$1\frac{1}{2}$	$\frac{5}{8}$
A120532	$\frac{3}{4}$	$1\frac{7}{8}$	2	$\frac{5}{8}$
A120536	$\frac{3}{4}$	$1\frac{7}{8}$	$2\frac{1}{4}$	$\frac{5}{8}$
A120540	$\frac{3}{4}$	$1\frac{7}{8}$	$2\frac{1}{2}$	$\frac{5}{8}$
*A140216	$\frac{7}{8}$	$1\frac{5}{8}$	1	$\frac{5}{8}$
A140224	$\frac{7}{8}$	$1\frac{5}{8}$	$1\frac{1}{2}$	$\frac{5}{8}$
A140228	$\frac{7}{8}$	$1\frac{5}{8}$	$1\frac{3}{4}$	$\frac{5}{8}$
A140240	$\frac{7}{8}$	$1\frac{5}{8}$	$2\frac{1}{2}$	$\frac{5}{8}$
*A140416	$\frac{7}{8}$	$1\frac{7}{8}$	1	$\frac{3}{4}$
A140424	$\frac{7}{8}$	$1\frac{7}{8}$	$1\frac{1}{2}$	$\frac{3}{4}$
A140428	$\frac{7}{8}$	$1\frac{7}{8}$	$1\frac{3}{4}$	$\frac{3}{4}$
*A140432	$\frac{7}{8}$	$1\frac{7}{8}$	2	$\frac{3}{4}$
A140440	$\frac{7}{8}$	$1\frac{7}{8}$	$2\frac{1}{2}$	$\frac{3}{4}$
*A140524	$\frac{7}{8}$	$1\frac{9}{8}$	$1\frac{1}{2}$	$\frac{5}{8}$
A140532	$\frac{7}{8}$	$1\frac{9}{8}$	2	$\frac{5}{8}$
A140540	$\frac{7}{8}$	$1\frac{9}{8}$	$2\frac{1}{2}$	$\frac{5}{8}$
*A160224	1	$1\frac{7}{8}$	$1\frac{1}{2}$	$\frac{5}{8}$
*A160232	1	$1\frac{7}{8}$	2	$\frac{5}{8}$
*A160416	1	$1\frac{9}{8}$	1	$\frac{3}{4}$
*A160420	1	$1\frac{9}{8}$	$1\frac{1}{4}$	$\frac{3}{4}$
*A160424	1	$1\frac{9}{8}$	$1\frac{1}{2}$	$\frac{3}{4}$
*A160428	1	$1\frac{9}{8}$	$1\frac{3}{4}$	$\frac{3}{4}$
*A160432	1	$1\frac{9}{8}$	2	$\frac{3}{4}$
*A160440	1	$1\frac{9}{8}$	$2\frac{1}{2}$	$\frac{3}{4}$
*A160532	1	$1\frac{3}{4}$	2	$\frac{5}{8}$

*Preferred sizes.

TYPE A, Continued

Bearing No.	BEARING SIZE			Roller Dia.
	Bore	O.D.	Lgth.	
A160540	1	$1\frac{3}{4}$	$2\frac{1}{2}$	$\frac{5}{8}$
A160624	1	$1\frac{15}{16}$	$1\frac{1}{2}$	$\frac{5}{8}$
*A160632	1	$1\frac{15}{16}$	2	$\frac{5}{8}$
*A160640	1	$1\frac{15}{16}$	$2\frac{1}{2}$	$\frac{5}{8}$
*A160648	1	$1\frac{15}{16}$	3	$\frac{5}{8}$
A160840	1	$2\frac{3}{16}$	$2\frac{1}{2}$	$\frac{1}{2}$
A160848	1	$2\frac{3}{16}$	3	$\frac{1}{2}$
A180216	$1\frac{1}{8}$	$1\frac{1}{8}$	1	$\frac{5}{8}$
A180224	$1\frac{1}{8}$	$1\frac{1}{8}$	$1\frac{1}{2}$	$\frac{5}{8}$
A180228	$1\frac{1}{8}$	$1\frac{1}{8}$	$1\frac{3}{4}$	$\frac{5}{8}$
A180424	$1\frac{1}{8}$	$1\frac{3}{4}$	$1\frac{1}{2}$	$\frac{3}{4}$
A180428	$1\frac{1}{8}$	$1\frac{3}{4}$	$1\frac{3}{4}$	$\frac{3}{4}$
*A180432	$1\frac{1}{8}$	$1\frac{3}{4}$	2	$\frac{3}{4}$
A180440	$1\frac{1}{8}$	$1\frac{3}{4}$	$2\frac{1}{2}$	$\frac{3}{4}$
A180732	$1\frac{1}{8}$	$2\frac{3}{16}$	2	$\frac{7}{16}$
A180740	$1\frac{1}{8}$	$2\frac{3}{16}$	$2\frac{1}{2}$	$\frac{7}{16}$
A180748	$1\frac{1}{8}$	$2\frac{3}{16}$	3	$\frac{7}{16}$
A180764	$1\frac{1}{8}$	$2\frac{3}{16}$	4	$\frac{7}{16}$
A200432	$1\frac{1}{4}$	$1\frac{7}{8}$	2	$\frac{3}{4}$
A200440	$1\frac{1}{4}$	$1\frac{7}{8}$	$2\frac{1}{2}$	$\frac{3}{4}$
A200448	$1\frac{1}{4}$	$1\frac{7}{8}$	3	$\frac{3}{4}$
A200524	$1\frac{1}{4}$	2	$1\frac{1}{2}$	$\frac{5}{8}$
A200528	$1\frac{1}{4}$	2	$1\frac{3}{4}$	$\frac{5}{8}$
A200532	$1\frac{1}{4}$	2	2	$\frac{5}{8}$
A200540	$1\frac{1}{4}$	2	$2\frac{1}{2}$	$\frac{5}{8}$
A200548	$1\frac{1}{4}$	2	3	$\frac{5}{8}$
A200616	$1\frac{1}{4}$	$2\frac{3}{16}$	1	$\frac{5}{8}$
A200624	$1\frac{1}{4}$	$2\frac{3}{16}$	$1\frac{1}{2}$	$\frac{5}{8}$
A200632	$1\frac{1}{4}$	$2\frac{3}{16}$	2	$\frac{5}{8}$
*A200640	$1\frac{1}{4}$	$2\frac{3}{16}$	$2\frac{1}{2}$	$\frac{5}{8}$
A220832	$1\frac{3}{8}$	$2\frac{3}{16}$	2	$\frac{1}{2}$
A220840	$1\frac{3}{8}$	$2\frac{3}{16}$	$2\frac{1}{2}$	$\frac{1}{2}$
A220848	$1\frac{3}{8}$	$2\frac{3}{16}$	3	$\frac{1}{2}$
A240928	$1\frac{1}{2}$	$2\frac{15}{16}$	$1\frac{3}{4}$	$\frac{5}{8}$
A240932	$1\frac{1}{2}$	$2\frac{15}{16}$	2	$\frac{5}{8}$
A240940	$1\frac{1}{2}$	$2\frac{15}{16}$	$2\frac{1}{2}$	$\frac{5}{8}$
A240948	$1\frac{1}{2}$	$2\frac{15}{16}$	3	$\frac{5}{8}$
A240964	$1\frac{1}{2}$	$2\frac{15}{16}$	4	$\frac{5}{8}$
A260940	$1\frac{5}{8}$	$2\frac{15}{16}$	$2\frac{1}{2}$	$\frac{5}{8}$
A260948	$1\frac{5}{8}$	$2\frac{15}{16}$	3	$\frac{5}{8}$
A281040	$1\frac{3}{4}$	$3\frac{3}{16}$	$2\frac{1}{2}$	$\frac{5}{8}$
A281048	$1\frac{3}{4}$	$3\frac{3}{16}$	3	$\frac{5}{8}$
A281064	$1\frac{3}{4}$	$3\frac{3}{16}$	4	$\frac{5}{8}$
A321032	2	$3\frac{1}{2}$	2	$\frac{5}{8}$
A321040	2	$3\frac{1}{2}$	$2\frac{1}{2}$	$\frac{5}{8}$
A321048	2	$3\frac{1}{2}$	3	$\frac{5}{8}$
A321064	2	$3\frac{1}{2}$	4	$\frac{5}{8}$

TYPE PA

Bearing No.	BEARING SIZE		
	Bore	O.D.	Lgth.
PA140532	$\frac{3}{8}$	$1\frac{1}{16}$	2
PA140540	$\frac{7}{8}$	$1\frac{1}{16}$	$2\frac{1}{2}$
PA160416	1	$1\frac{1}{16}$	1
*PA160424	1	$1\frac{1}{16}$	$1\frac{1}{2}$
PA160532	1	$1\frac{1}{16}$	2
*PA160540	1	$1\frac{1}{16}$	$2\frac{1}{2}$
PA180424	$1\frac{1}{8}$	$1\frac{1}{16}$	$1\frac{1}{2}$
PA180428	$1\frac{1}{8}$	$1\frac{1}{16}$	$1\frac{3}{4}$
PA180440	$1\frac{1}{8}$	$1\frac{1}{16}$	$2\frac{1}{2}$
PA200424	$1\frac{1}{4}$	$1\frac{1}{16}$	$1\frac{1}{2}$
PA200432	$1\frac{1}{4}$	$1\frac{1}{16}$	2
PA200440	$1\frac{1}{4}$	$1\frac{1}{16}$	$2\frac{1}{2}$
PA200448	$1\frac{1}{4}$	$1\frac{1}{16}$	3
PA200532	$1\frac{1}{4}$	$2\frac{1}{16}$	2
PA200540	$1\frac{1}{4}$	$2\frac{1}{16}$	$2\frac{1}{2}$
PA200548	$1\frac{1}{4}$	$2\frac{1}{16}$	3
PA200824	$1\frac{1}{4}$	$2\frac{7}{16}$	$1\frac{1}{2}$
PA200828	$1\frac{1}{4}$	$2\frac{7}{16}$	$1\frac{3}{4}$
PA200832	$1\frac{1}{4}$	$2\frac{7}{16}$	2
PA200848	$1\frac{1}{4}$	$2\frac{7}{16}$	3
PA200864	$1\frac{1}{4}$	$2\frac{7}{16}$	4
PA281032	$1\frac{3}{4}$	$3\frac{1}{4}$	2
PA281048	$1\frac{3}{4}$	$3\frac{1}{4}$	3
PA281056	$1\frac{3}{4}$	$3\frac{1}{4}$	$3\frac{1}{2}$

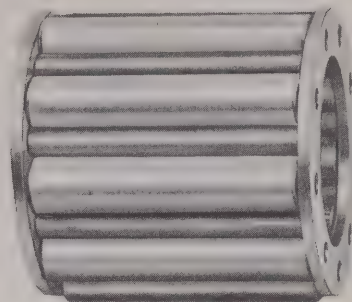
Type PA designates a roller assembly with a planished heavy duty outer sleeve made from heavy stock. This increases the outside diameter of the PA assembly over the like bearings in the A type assemblies and improves its heavy duty rating. Like the A type, it is for use where space is at a premium, where it is convenient to harden the shaft and not the housing.

ROLLWAY ROLLER BEARINGS

SOME SIZES
NOT CURRENTLY
IN PRODUCTION.
CHECK FOR
AVAILABILITY.

ROLLER ASSEMBLY ONLY

The steel cage type roller assembly is for use directly on a hardened shaft or sleeve and in a hardened housing or gear. For maximum capacity a minimum hardness of 54 Rockwell C scale is recommended.



STEEL CAGE TYPE INCH SERIES ROLLER ASSEMBLY With No Inner Race or Outer Race

Dimensions given under bearing length is length of operating space. Bearings are actually about $\frac{1}{16}$ shorter to provide running clearance.

DIMENSIONS

Bearing No.	BEARING SIZE			Roller Dia.
	Bore	O.D.	Lgth.	
080416	$\frac{1}{2}$	1	1	$\frac{1}{4}$
*090424	$\frac{5}{16}$	$1\frac{1}{16}$	$1\frac{1}{2}$	$\frac{1}{4}$
*100212	$\frac{3}{8}$	1	$\frac{3}{4}$	$\frac{3}{16}$
*100216	$\frac{3}{8}$	1	1	$\frac{3}{16}$
*100220	$\frac{3}{8}$	1	$1\frac{1}{4}$	$\frac{3}{16}$
100224	$\frac{5}{8}$	1	$1\frac{1}{2}$	$\frac{3}{16}$
100228	$\frac{5}{8}$	1	$1\frac{3}{4}$	$\frac{3}{16}$
100232	$\frac{5}{8}$	1	2	$\frac{3}{16}$
*100416	$\frac{5}{8}$	$1\frac{1}{8}$	1	$\frac{1}{4}$
100424	$\frac{5}{8}$	$1\frac{1}{8}$	$1\frac{1}{2}$	$\frac{1}{4}$
*100432	$\frac{5}{8}$	$1\frac{1}{8}$	2	$\frac{1}{4}$
100436	$\frac{5}{8}$	$1\frac{1}{8}$	$2\frac{1}{4}$	$\frac{1}{4}$
120116	$\frac{3}{4}$	$1\frac{1}{8}$	1	$\frac{5}{16}$
*120216	$\frac{3}{4}$	$1\frac{1}{8}$	1	$\frac{5}{16}$
*120220	$\frac{3}{4}$	$1\frac{1}{8}$	$1\frac{1}{4}$	$\frac{5}{16}$
*120224	$\frac{3}{4}$	$1\frac{1}{8}$	$1\frac{1}{2}$	$\frac{5}{16}$
*120228	$\frac{3}{4}$	$1\frac{1}{8}$	$1\frac{3}{4}$	$\frac{5}{16}$
*120232	$\frac{3}{4}$	$1\frac{1}{8}$	2	$\frac{5}{16}$
120236	$\frac{3}{4}$	$1\frac{1}{8}$	$2\frac{1}{4}$	$\frac{5}{16}$
*120422	$\frac{3}{4}$	$1\frac{1}{4}$	$1\frac{3}{8}$	$\frac{1}{4}$
*120424	$\frac{3}{4}$	$1\frac{1}{4}$	$1\frac{1}{2}$	$\frac{1}{4}$
*120428	$\frac{3}{4}$	$1\frac{1}{4}$	$1\frac{3}{4}$	$\frac{1}{4}$
*120432	$\frac{3}{4}$	$1\frac{1}{4}$	2	$\frac{1}{4}$
120440	$\frac{3}{4}$	$1\frac{1}{4}$	$2\frac{1}{2}$	$\frac{1}{4}$
*120516	$\frac{3}{4}$	$1\frac{3}{8}$	1	$\frac{5}{16}$
120524	$\frac{3}{4}$	$1\frac{3}{8}$	$1\frac{1}{2}$	$\frac{5}{16}$
*120532	$\frac{3}{4}$	$1\frac{3}{8}$	2	$\frac{5}{16}$
120536	$\frac{3}{4}$	$1\frac{3}{8}$	$2\frac{1}{4}$	$\frac{5}{16}$
120540	$\frac{3}{4}$	$1\frac{3}{8}$	$2\frac{1}{2}$	$\frac{5}{16}$
*130424	$1\frac{1}{16}$	$1\frac{5}{16}$	$1\frac{1}{2}$	$\frac{1}{4}$
140216	$\frac{7}{8}$	$1\frac{1}{4}$	1	$\frac{3}{16}$
*140224	$\frac{7}{8}$	$1\frac{1}{4}$	$1\frac{1}{2}$	$\frac{3}{16}$
140228	$\frac{7}{8}$	$1\frac{1}{4}$	$1\frac{3}{4}$	$\frac{3}{16}$
140240	$\frac{7}{8}$	$1\frac{1}{4}$	$2\frac{1}{2}$	$\frac{3}{16}$
*140416	$\frac{7}{8}$	$1\frac{3}{8}$	1	$\frac{1}{4}$
140420	$\frac{7}{8}$	$1\frac{3}{8}$	$1\frac{1}{4}$	$\frac{1}{4}$
140424	$\frac{7}{8}$	$1\frac{3}{8}$	$1\frac{1}{2}$	$\frac{1}{4}$
*140428	$\frac{7}{8}$	$1\frac{3}{8}$	$1\frac{3}{4}$	$\frac{1}{4}$
*140432	$\frac{7}{8}$	$1\frac{3}{8}$	2	$\frac{1}{4}$
140440	$\frac{7}{8}$	$1\frac{3}{8}$	$2\frac{1}{2}$	$\frac{1}{4}$

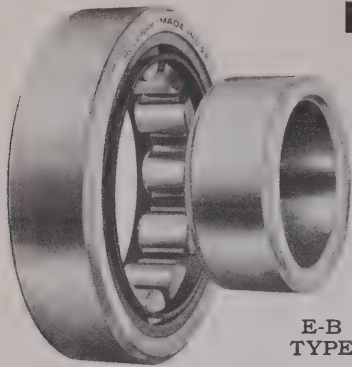
Bearing No.	BEARING SIZE			Roller Dia.
	Bore	O.D.	Lgth.	
*140524	$\frac{7}{8}$	$1\frac{1}{2}$	$1\frac{1}{2}$	$\frac{5}{16}$
*140532	$\frac{7}{8}$	$1\frac{1}{2}$	2	$\frac{5}{16}$
140540	$\frac{7}{8}$	$1\frac{1}{2}$	$2\frac{1}{2}$	$\frac{5}{16}$
*160224	1	$1\frac{3}{8}$	$1\frac{1}{2}$	$\frac{3}{16}$
*160232	1	$1\frac{3}{8}$	2	$\frac{3}{16}$
*160416	1	$1\frac{1}{2}$	1	$\frac{1}{4}$
160418	1	$1\frac{1}{2}$	$1\frac{1}{8}$	$\frac{1}{4}$
*160420	1	$1\frac{1}{2}$	$1\frac{1}{4}$	$\frac{1}{4}$
*160424	1	$1\frac{1}{2}$	$1\frac{1}{2}$	$\frac{1}{4}$
160426	1	$1\frac{1}{2}$	$1\frac{5}{8}$	$\frac{1}{4}$
*160428	1	$1\frac{1}{2}$	$1\frac{3}{4}$	$\frac{1}{4}$
*160432	1	$1\frac{1}{2}$	2	$\frac{1}{4}$
*160440	1	$1\frac{1}{2}$	$2\frac{1}{2}$	$\frac{1}{4}$
*160532	1	$1\frac{5}{8}$	2	$\frac{5}{16}$
*160540	1	$1\frac{5}{8}$	$2\frac{1}{2}$	$\frac{5}{16}$
*160548	1	$1\frac{5}{8}$	3	$\frac{5}{16}$
160624	1	$1\frac{3}{4}$	$1\frac{1}{2}$	$\frac{3}{8}$
*160632	1	$1\frac{3}{4}$	2	$\frac{3}{8}$
*160640	1	$1\frac{3}{4}$	$2\frac{1}{2}$	$\frac{3}{8}$
*160648	1	$1\frac{3}{4}$	3	$\frac{3}{8}$
160840	1	2	$2\frac{1}{2}$	$\frac{1}{2}$
160848	1	2	3	$\frac{1}{2}$
180216	$1\frac{1}{8}$	$1\frac{1}{2}$	1	$\frac{3}{16}$
180224	$1\frac{1}{8}$	$1\frac{1}{2}$	$1\frac{1}{2}$	$\frac{3}{16}$
180228	$1\frac{1}{8}$	$1\frac{1}{2}$	$1\frac{3}{4}$	$\frac{3}{16}$
*180416	$1\frac{1}{8}$	$1\frac{5}{8}$	1	$\frac{1}{4}$
180420	$1\frac{1}{8}$	$1\frac{5}{8}$	$1\frac{1}{4}$	$\frac{1}{4}$
*180422	$1\frac{1}{8}$	$1\frac{5}{8}$	$1\frac{3}{8}$	$\frac{1}{4}$
*180424	$1\frac{1}{8}$	$1\frac{5}{8}$	$1\frac{1}{2}$	$\frac{1}{4}$
*180426	$1\frac{1}{8}$	$1\frac{5}{8}$	$1\frac{5}{8}$	$\frac{1}{4}$
*180428	$1\frac{1}{8}$	$1\frac{5}{8}$	$1\frac{3}{4}$	$\frac{1}{4}$
180432	$1\frac{1}{8}$	$1\frac{5}{8}$	2	$\frac{1}{4}$
180436	$1\frac{1}{8}$	$1\frac{5}{8}$	$2\frac{1}{4}$	$\frac{1}{4}$
180440	$1\frac{1}{8}$	$1\frac{5}{8}$	$2\frac{1}{2}$	$\frac{1}{4}$
180732	$1\frac{1}{8}$	2	2	$\frac{7}{16}$
180740	$1\frac{1}{8}$	2	$2\frac{1}{2}$	$\frac{7}{16}$
180748	$1\frac{1}{8}$	2	3	$\frac{7}{16}$
180764	$1\frac{1}{8}$	2	4	$\frac{7}{16}$
*200420	$1\frac{1}{4}$	$1\frac{3}{4}$	$1\frac{1}{4}$	$\frac{1}{4}$
*200424	$1\frac{1}{4}$	$1\frac{3}{4}$	$1\frac{1}{2}$	$\frac{1}{4}$
*200426	$1\frac{1}{4}$	$1\frac{3}{4}$	$1\frac{5}{8}$	$\frac{1}{4}$

Bearing No.	BEARING SIZE			Roller Dia.
	Bore	O.D.	Lgth.	
200432	$1\frac{1}{4}$	$1\frac{3}{4}$	2	$\frac{1}{4}$
200436	$1\frac{1}{4}$	$1\frac{3}{4}$	$2\frac{1}{4}$	$\frac{1}{4}$
*200440	$1\frac{1}{4}$	$1\frac{3}{4}$	$2\frac{1}{2}$	$\frac{1}{4}$
*200448	$1\frac{1}{4}$	$1\frac{3}{4}$	3	$\frac{1}{4}$
200524	$1\frac{1}{4}$	$1\frac{7}{8}$	$1\frac{1}{2}$	$\frac{5}{16}$
200528	$1\frac{1}{4}$	$1\frac{7}{8}$	$1\frac{3}{4}$	$\frac{5}{16}$
*200532	$1\frac{1}{4}$	$1\frac{7}{8}$	2	$\frac{5}{16}$
*200540	$1\frac{1}{4}$	$1\frac{7}{8}$	$2\frac{1}{2}$	$\frac{5}{16}$
*200548	$1\frac{1}{4}$	$1\frac{7}{8}$	3	$\frac{5}{16}$
200616	$1\frac{1}{4}$	2	1	$\frac{3}{8}$
200624	$1\frac{1}{4}$	2	$1\frac{1}{2}$	$\frac{3}{8}$
*200632	$1\frac{1}{4}$	2	2	$\frac{3}{8}$
*200640	$1\frac{1}{4}$	2	$2\frac{1}{2}$	$\frac{3}{8}$
*200824	$1\frac{1}{4}$	$2\frac{1}{4}$	$1\frac{1}{2}$	$\frac{1}{2}$
200828	$1\frac{1}{4}$	$2\frac{1}{4}$	$1\frac{3}{4}$	$\frac{1}{2}$
200832	$1\frac{1}{4}$	$2\frac{1}{4}$	2	$\frac{1}{2}$
200848	$1\frac{1}{4}$	$2\frac{1}{4}$	3	$\frac{1}{2}$
200864	$1\frac{1}{4}$	$2\frac{1}{4}$	4	$\frac{1}{2}$
*220824	$1\frac{3}{8}$	$2\frac{3}{8}$	$1\frac{1}{2}$	$\frac{1}{2}$
220832	$1\frac{3}{8}$	$2\frac{3}{8}$	2	$\frac{1}{2}$
220840	$1\frac{3}{8}$	$2\frac{3}{8}$	$2\frac{1}{2}$	$\frac{1}{2}$
220848	$1\frac{3}{8}$	$2\frac{3}{8}$	3	$\frac{1}{2}$
*240928	$1\frac{1}{2}$	$2\frac{5}{8}$	$1\frac{3}{4}$	$\frac{9}{16}$
240932	$1\frac{1}{2}$	$2\frac{5}{8}$	2	$\frac{9}{16}$
240940	$1\frac{1}{2}$	$2\frac{5}{8}$	$2\frac{1}{2}$	$\frac{9}{16}$
240948	$1\frac{1}{2}$	$2\frac{5}{8}$	3	$\frac{9}{16}$
240964	$1\frac{1}{2}$	$2\frac{5}{8}$	4	$\frac{9}{16}$
260940	$1\frac{5}{8}$	$2\frac{3}{4}$	$2\frac{1}{2}$	$\frac{3}{4}$
260948	$1\frac{5}{8}$	$2\frac{3}{4}$	3	$\frac{3}{4}$
281028	$1\frac{3}{4}$	3	$1\frac{3}{4}$	$\frac{5}{8}$
281032	$1\frac{3}{4}$	3	2	$\frac{5}{8}$
281040	$1\frac{3}{4}$	3	$2\frac{1}{2}$	$\frac{5}{8}$
281048	$1\frac{3}{4}$	3	3	$\frac{5}{8}$
281056	$1\frac{3}{4}$	3	$3\frac{1}{2}$	$\frac{5}{8}$
281064	$1\frac{3}{4}$	3	4	$\frac{5}{8}$
321020	2	$3\frac{1}{4}$	$1\frac{1}{4}$	$\frac{5}{8}$
321032	2	$3\frac{1}{4}$	2	$\frac{5}{8}$
321040	2	$3\frac{1}{4}$	$2\frac{1}{2}$	$\frac{5}{8}$
321048	2	$3\frac{1}{4}$	3	$\frac{5}{8}$
321064	2	$3\frac{1}{4}$	4	$\frac{5}{8}$

*Preferred sizes.

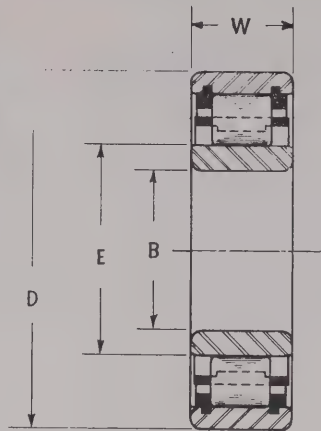
ROLLWAY ROLLER BEARINGS

TRU-ROL METRIC—STEEL CAGE TYPE



**E-B
TYPE**

The dimensional tables shown on this page are for the basic E-B Series design, but in all styles of construction the basic Series numbers and sizes remain the same.



1200 SERIES

Bearing No. Complete with Inner Race	Bore (B)		O.D. (D)		Width (W)		Dia. (E)
	Mm	Inches	Mm	Inches	Mm	Inches	
E-1205B	25	.9843	52	2.0472	15	.5906	1.266
E-1206B	30	1.1811	62	2.4409	16	.6299	1.498
E-1207B	35	1.3780	72	2.8346	17	.6693	1.731
E-1208B	40	1.5748	80	3.1496	18	.7087	1.966
E-1209B	45	1.7717	85	3.3465	19	.7480	2.186
E-1210B	50	1.9685	90	3.5433	20	.7874	2.380
E-1211B	55	2.1654	100	3.9370	21	.8268	2.634
E-1212B	60	2.3622	110	4.3307	22	.8661	2.850
E-1213B	65	2.5591	120	4.7244	23	.9055	3.166
E-1214B	70	2.7559	125	4.9213	24	.9449	3.338
E-1215B	75	2.9528	130	5.1181	25	.9843	3.504
E-1216B	80	3.1496	140	5.5118	26	1.0236	3.751
E-1217B	85	3.3465	150	5.9055	28	1.1024	4.016
E-1218B	90	3.5433	160	6.2992	30	1.1811	4.221
E-1219B	95	3.7402	170	6.6929	32	1.2598	4.469
E-1220B	100	3.9370	180	7.0866	34	1.3386	4.764
E-1221B	105	4.1339	190	7.4803	36	1.4173	4.981
E-1222B	110	4.3307	200	7.8740	38	1.4961	5.234
E-1224B	120	4.7244	215	8.4646	40	1.5748	5.714
E-1226B	130	5.1181	230	9.0551	40	1.5748	6.101
E-1228B	140	5.5118	250	9.8425	42	1.6535	6.632
E-1230B	150	5.9055	270	10.6299	45	1.7717	7.147

5200 SERIES

Bearing No. Complete with Inner Race	Bore (B)		O.D. (D)		Width (W)		Dia. (E)
	Mm	Inches	Mm	Inches	Inches		
E-5205B	25	.9843	52	2.0472	1 1/16	.8125	1.266
E-5206B	30	1.1811	62	2.4409	1 1/16	.9375	1.498
E-5207B	35	1.3780	72	2.8346	1 1/16	1.0625	1.731
E-5208B	40	1.5748	80	3.1496	1 1/16	1.1875	1.966
E-5209B	45	1.7717	85	3.3465	1 1/16	1.1875	2.186
E-5210B	50	1.9685	90	3.5433	1 1/16	1.1875	2.380
E-5211B	55	2.1654	100	3.9370	1 1/16	1.3125	2.634
E-5212B	60	2.3622	110	4.3307	1 1/16	1.4375	2.850
E-5213B	65	2.5591	120	4.7244	1 1/2	1.5000	3.166
E-5214B	70	2.7559	125	4.9213	1 1/2	1.5625	3.338
E-5215B	75	2.9528	130	5.1181	1 5/8	1.6250	3.504
E-5216B	80	3.1496	140	5.5118	1 5/8	1.7500	3.751
E-5217B	85	3.3465	150	5.9055	1 5/8	1.9375	4.016
E-5218B	90	3.5433	160	6.2992	2 1/16	2.0625	4.221
E-5219B	95	3.7402	170	6.6929	2 1/16	2.1875	4.469
E-5220B	100	3.9370	180	7.0866	2 3/8	2.3750	4.764
E-5221B	105	4.1339	190	7.4803	2 3/8	2.5625	4.981
E-5222B	110	4.3307	200	7.8740	2 3/4	2.7500	5.234
E-5224B	120	4.7244	215	8.4646	3	3.0000	5.714
E-5226B	130	5.1181	230	9.0551	3 1/8	3.1250	6.101
E-5228B	140	5.5118	250	9.8425	3 1/4	3.2500	6.632
E-5230B	150	5.9055	270	10.6299	3 1/2	3.5000	7.147
E-5232B	160	6.2992	290	11.4173	3 3/8	3.8750	7.623
E-5234B	170	6.6929	310	12.2047	4 1/8	4.1250	8.090
E-5236B	180	7.0866	320	12.5984	4 1/4	4.2500	8.515
E-5240B	200	7.8740	360	14.1732	4 3/4	4.7500	9.535

5300 SERIES

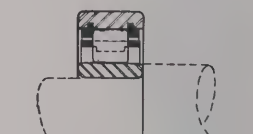
Bearing No.	Bore (B)		O.D. (D)		Width (W)		Dia. (E)
	Mm	Inches	Mm	Inches	Inches		
E-5307B	35	1.3780	80	3.1496	1 3/8	1.3750	1.844
E-5308B	40	1.5748	90	3.5433	1 1/2	1.4375	2.059
E-5310B	50	1.9685	110	4.3307	1 3/4	1.7500	2.565
E-5313B	65	2.5591	140	5.5118	2 1/8	2.3125	3.294
E-5315B	75	2.9528	160	6.2992	2 11/16	2.6875	3.776
E-5322B	110	4.3307	240	9.4488	3 5/8	3.6250	5.719
E-6210B	50	1.9685	90	3.5433	2 3/8	2.3750	2.380
E-6219B	95	3.7402	170	6.6929	4 3/8	4.3750	4.469

1300 SERIES

Bearing No.	Bore (B)		O.D. (D)		Width (W)		Dia. (E)
	Mm	Inches	Mm	Inches	Mm	Inches	
E-1303B	17	.6693	47	1.8504	14	.5512	.980
E-1305B	25	.9843	62	2.4409	17	.6693	1.338
E-1306B	30	1.1811	72	2.8346	19	.7480	1.602
E-1307B	35	1.3780	80	3.1496	21	.8268	1.844
E-1308B	40	1.5748	90	3.5433	23	.9055	2.059
E-1309B	45	1.7717	100	3.9370	25	.9843	2.337
E-1310B	50	1.9685	110	4.3307	27	1.0630	2.565
E-1311B	55	2.1654	120	4.7244	29	1.1417	2.812
E-1312B	60	2.3622	130	5.1181	31	1.2205	3.053
E-1313B	65	2.5591	140	5.5118	33	1.2992	3.294
E-1314B	70	2.7559	150	5.9055	35	1.3780	3.512
E-1315B	75	2.9528	160	6.2992	37	1.4567	3.776
E-1316B	80	3.1496	170	6.6929	39	1.5354	4.001
E-1317B	85	3.3465	180	7.0866	41	1.6142	4.272
E-1318B	90	3.5433	190	7.4803	43	1.6929	4.489
E-1320B	100	3.9370	215	8.4646	47	1.8504	5.125
E-1322B	110	4.3307	240	9.4488	50	1.9685	5.719
E-1326B	130	5.1181	280	11.0236	58	2.2835	6.714



TYPE -B
Direct Shaft
Application



TYPE E-B
Application
with Inner Race

Prefix E identifies Inner Race.

Suffix B identifies Outer Race and Roller Assembly.

ADDITIONAL INTERNAL DESIGNS

(Not available in all sizes)



E-U
Type



L-J
Type



LR-U
Type



UR-E
Type



UR-L
Type



U-B
Type



UM-B
Type



U-J
Type



UM-J
Type

Same as U-B
except has full
complement of
rollers

Same as U-J
except has full
complement of
rollers

ROLLWAY ROLLER BEARINGS

CYLINDRICAL RADIAL ROLLER

SINGLE ROW-METRIC SERIES

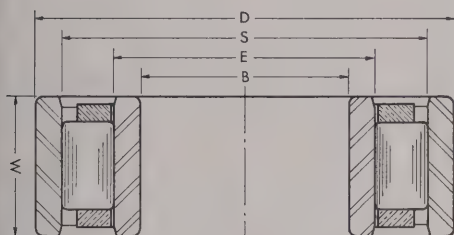


Rollway Precision Cylindrical Radial Bronze Retainer Type Bearings are supplied in various styles of internal construction with modified combinations of inner and outer races, roller assemblies, and retainers.

Prefix letters are used to indicate style of construction.

Bearings listed are the single width series, and are interchangeable in boundary dimensions with the standard single row ball bearings that conform to the S.A.E. standard sizes.

Not all sizes available in each type shown.



MS Type

MCS Type



MUC Type

MUL Type

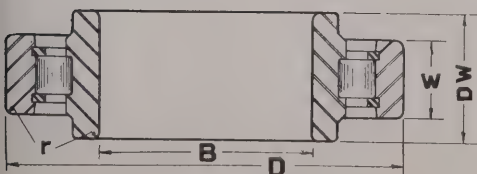
ML Type



MN Type

MO Type

MU Type



Type MDW

Bearing Number	BORE (B)		OUT. DIA. (D)		WIDTH (W)		O.D. of Inner Race (E)	I.D. of Outer Race (S)	Width (DW)
	Mm	Inches	Mm	Inches	Mm	Inches			
206	30	1.1811	62	2.4409	16	0.6299	1 1/8	2 1/8	...
207	35	1.3780	72	2.8346	17	0.6693	1 3/8	2 3/8	...
208	40	1.5748	80	3.1496	18	0.7087	2	2 3/4	...
209	45	1.7717	85	3.3465	19	0.7480	2 1/8	2 5/8	...
210	50	1.9685	90	3.5433	20	0.7874	2 3/8	3	...
211	55	2.1654	100	3.9370	21	0.8268	2 3/8	3 1/8	...
212	60	2.3622	110	4.3307	22	0.8661	2 3/8	3 1/8	...
213	65	2.5591	120	4.7244	23	0.9055	3 1/8	4 1/8	...
214	70	2.7559	125	4.9213	24	0.9449	3 1/8	4 1/8	...
215	75	2.9528	130	5.1181	25	0.9843	3 1/2	4 1/2	...
216	80	3.1496	140	5.5118	26	1.0236	3 3/4	4 3/4	...
217	85	3.3465	150	5.9055	28	1.1024	4	5 1/4	...
218	90	3.5433	160	6.2992	30	1.1811	4 1/4	5 3/8	...
219	95	3.7402	170	6.6929	32	1.2598	4 1/2	6	...
220	100	3.9370	180	7.0866	34	1.3386	4 3/4	6 1/4	...
221	105	4.1339	190	7.4803	36	1.4173	5	6 1/2	...
222	110	4.3307	200	7.8740	38	1.4961	5 1/4	7	...
224	120	4.7244	215	8.4646	40	1.5748	5 3/8	7 1/2	...
226	130	5.1181	230	9.0551	40	1.5748	6 1/8	8 1/8	...
228	140	5.5118	250	9.8425	42	1.6535	6 3/8	8 3/4	...
230	150	5.9055	270	10.6299	45	1.7717	7 1/8	9 1/8	...
232	160	6.2992	290	11.4173	48	1.8898	7 3/8	10 1/8	...

306	30	1.1811	72	2.8346	19	0.7480	1 5/8	2 1/4	...
307	35	1.3780	80	3.1496	21	0.8268	1 3/4	2 3/4	...
308	40	1.5748	90	3.5433	23	0.9055	2	3 1/8	...
309	45	1.7717	100	3.9370	25	0.9843	2 1/4	3 1/8	...
310	50	1.9685	110	4.3307	27	1.0630	2 3/8	3 3/8	...
311	55	2.1654	120	4.7244	29	1.1417	2 3/4	4 1/8	...
312	60	2.3622	130	5.1181	31	1.2205	3	4 3/8	...
313	65	2.5591	140	5.5118	33	1.2992	3 1/4	4 3/8	...
314	70	2.7559	150	5.9055	35	1.3780	3 1/2	5 1/4	...
315	75	2.9528	160	6.2992	37	1.4567	3 3/4	5 3/8	...
316	80	3.1496	170	6.6929	39	1.5354	4	6	...
317	85	3.3465	180	7.0866	41	1.6142	4 1/4	6 1/4	...
318	90	3.5433	190	7.4803	43	1.6929	4 1/2	6 3/8	...
319	95	3.7402	200	7.8740	45	1.7717	4 3/4	7	...
320	100	3.9370	215	8.4646	47	1.8504	5	7 1/2	...
321	105	4.1339	225	8.8583	49	1.9291	5 1/4	7 3/4	...
322	110	4.3307	240	9.4488	50	1.9685	5 1/2	8 1/4	...
324	120	4.7244	260	10.2362	55	2.1654	6 1/8	8 3/8	...
326	130	5.1181	280	11.0236	58	2.2835	6 3/8	9 1/8	...
328	140	5.5118	300	11.8110	62	2.4409	7	10 1/4	...
330	150	5.9055	320	12.5984	65	2.5591	7 1/2	11	...
332	160	6.2992	340	13.3858	68	2.6772	8	11 3/4	...

405	25	0.9843	80	3.1496	21	0.8268	1 5/8	2 1/4	...
407	35	1.3780	100	3.9370	25	0.9843	2 1/8	3 1/4	...
408	40	1.5748	110	4.3307	27	1.0630	2 3/8	3 3/8	...
409	45	1.7717	120	4.7244	29	1.1417	2 3/4	3 3/8	...
410	50	1.9685	130	5.1181	31	1.2205	2 3/4	4 1/4	...
411	55	2.1654	140	5.5118	33	1.2992	3 1/8	4 3/8	...
412	60	2.3622	150	5.9055	35	1.3780	3 1/4	5	...
413	65	2.5591	160	6.2992	37	1.4567	3 1/2	5 1/8	...
414	70	2.7559	180	7.0866	42	1.6535	3 3/8	5 3/8	...
415	75	2.9528	190	7.4803	45	1.7717	4 1/8	6 1/8	...
417	85	3.3465	210	8.2677	52	2.0472	4 3/8	7 1/8	...

128	140	5.5118	220	8.6615	36	1.4173	...	7 3/8	...
130	150	5.9055	235	9.2520	38	1.4961	...	8 3/8	...
132	160	6.2992	250	9.8425	40	1.5748	...	8 3/8	...
134	170	6.6929	265	10.4331	42	1.6535	...	9 1/2	...
136	180	7.0866	280	11.0236	44	1.7323	...	10 1/8	...
138	190	7.4803	300	11.8110	46	1.8110	...	10 5/8	...
140	200	7.8740	320	12.5984	48	1.8898	...	11 3/8	...
142	210	8.2677	340	13.3858	50	1.9685	...	12 1/8	...
144	220	8.6614	350	13.7796	51	2.0079	...	12 1/2	...
146	230	9.0551	370	14.5671	53	2.0866	...	13 1/4	...
150	250	9.8425	410	16.1419	57	2.2441	...	14 3/8	...
152	260	10.2362	430	16.9293	59	2.3228	...	15 1/8	...
156	280	11.0236	460	18.1102	63	2.4803	...	16 1/4	...

* M and MDW types have same overall dimensions as MS type, but they have maximum complement of rollers and no separator.

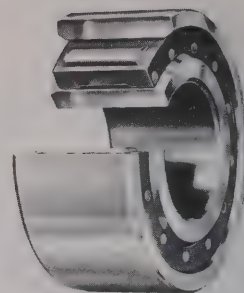
ROLLWAY ROLLER BEARINGS

CYLINDRICAL RADIAL ROLLER TYPES

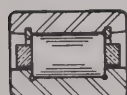
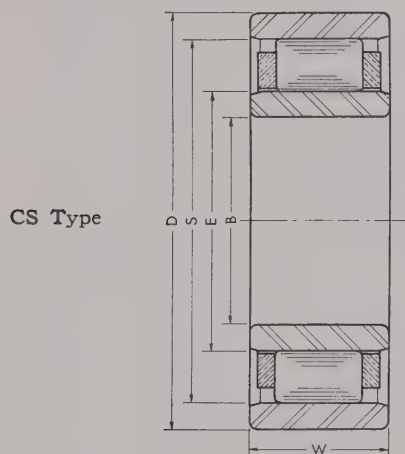
5100, 5200 and 5300 Series—Metric

Rollway Precision Cylindrical Radial Bronze Retainer Type Bearings are supplied in various styles of internal construction with modified combinations of inner and outer races, roller assemblies, and retainers. Prefix letters are used to indicate style of construction.

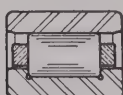
Bearings listed are in the double width series, and are interchangeable in boundary dimensions with the standard double row ball bearings that conform to the S.A.E. standard sizes.



**Not all sizes available
in each type shown.**



MS Type



MCS Type



MO Type



ML Type



MU Type



MUC Type



MUL Type



MN Type

Bearing Number	BORE (B)		OUTSIDE DIA. (D)		WIDTH (W) Inches	O.D. of Inner Race (E)	I.D. of Outer Race (S)
	Mm	Inches	Mm	Inches			

5200 SERIES

CS MS MCS MU MUC ML	5204	20	0.7874	47	1.8504	$1\frac{3}{16}$	$1\frac{1}{16}$	$1\frac{9}{16}$
	5205	25	0.9843	52	2.0472	$1\frac{5}{16}$	$1\frac{1}{4}$	$1\frac{3}{4}$
	5206	30	1.1811	62	2.4409	$1\frac{5}{16}$	$1\frac{1}{2}$	$2\frac{1}{8}$
	5207	35	1.3780	72	2.8346	$1\frac{1}{2}$	$1\frac{3}{4}$	$2\frac{1}{2}$
	5208	40	1.5748	80	3.1496	$1\frac{1}{2}$	2	$2\frac{3}{4}$
	5209	45	1.7717	85	3.3465	$1\frac{3}{16}$	$2\frac{3}{16}$	$2\frac{15}{16}$
	5210	50	1.9685	90	3.5433	$1\frac{3}{16}$	$2\frac{3}{8}$	$3\frac{1}{8}$
	5211	55	2.1654	100	3.9370	$1\frac{3}{16}$	$2\frac{5}{8}$	$3\frac{1}{2}$
	5212	60	2.3622	110	4.3307	$1\frac{1}{2}$	$2\frac{7}{8}$	$3\frac{3}{8}$
	5213	65	2.5591	120	4.7244	$1\frac{1}{2}$	$3\frac{1}{8}$	$4\frac{1}{8}$
	5214	70	2.7559	125	4.9213	$1\frac{9}{16}$	$3\frac{5}{16}$	$4\frac{5}{16}$
	5215	75	2.9528	130	5.1181	$1\frac{9}{16}$	$3\frac{1}{2}$	$4\frac{1}{2}$
	5216	80	3.1496	140	5.5118	$1\frac{3}{4}$	$3\frac{3}{4}$	$4\frac{7}{8}$
	5217	85	3.3465	150	5.9055	$1\frac{15}{16}$	4	$5\frac{1}{4}$
	5218	90	3.5433	160	6.2992	$2\frac{1}{16}$	$4\frac{1}{4}$	$5\frac{5}{8}$
	5219	95	3.7402	170	6.6929	$2\frac{3}{16}$	$4\frac{1}{2}$	6
	5220	100	3.9370	180	7.0866	$2\frac{3}{8}$	$4\frac{3}{4}$	$6\frac{1}{4}$
	5221	105	4.1339	190	7.4803	$2\frac{9}{16}$	5	$6\frac{1}{2}$
	5222	110	4.3307	200	7.8740	$2\frac{3}{4}$	$5\frac{1}{2}$	7
	5224	120	4.7244	215	8.4646	3	$5\frac{5}{8}$	$7\frac{1}{2}$
	5226	130	5.1181	230	9.0551	$3\frac{1}{8}$	$6\frac{1}{16}$	$8\frac{1}{16}$
	5228	140	5.5118	250	9.8425	$3\frac{1}{4}$	$6\frac{5}{8}$	$8\frac{3}{4}$
	5230	150	5.9055	270	10.6299	$3\frac{1}{2}$	$7\frac{1}{16}$	$9\frac{1}{16}$
	5232	160	6.2992	290	11.4173	$3\frac{1}{8}$	$7\frac{5}{8}$	$10\frac{1}{8}$
	5234	170	6.6929	310	12.2047	$4\frac{1}{8}$	$8\frac{5}{16}$	$10\frac{11}{16}$
	5236	180	7.0866	320	12.5984	$4\frac{1}{4}$	$8\frac{3}{4}$	$11\frac{1}{4}$

5300 SERIES

CS MS MCS MUC	5304	20	0.7874	52	2.0472	$\frac{7}{8}$	$1\frac{1}{8}$	$1\frac{3}{4}$
	5305	25	0.9843	62	2.4409	1	$1\frac{3}{8}$	$2\frac{1}{8}$
	5306	30	1.1811	72	2.8346	$1\frac{1}{16}$	$1\frac{5}{8}$	$2\frac{1}{2}$
	5307	35	1.3780	80	3.1496	$1\frac{1}{8}$	$1\frac{7}{8}$	$2\frac{3}{4}$
	5308	40	1.5748	90	3.5433	$1\frac{1}{16}$	2	$3\frac{1}{8}$
	5309	45	1.7717	100	3.9370	$1\frac{9}{16}$	$2\frac{1}{4}$	$3\frac{1}{8}$
	5310	50	1.9685	110	4.3307	$1\frac{3}{4}$	$2\frac{5}{8}$	$3\frac{3}{8}$
	5311	55	2.1654	120	4.7244	$1\frac{15}{16}$	$2\frac{3}{4}$	$4\frac{1}{8}$
	5312	60	2.3622	130	5.1181	$2\frac{1}{8}$	3	$4\frac{5}{8}$
	5313	65	2.5591	140	5.5118	$2\frac{3}{16}$	$3\frac{1}{4}$	$4\frac{7}{8}$
	5314	70	2.7559	150	5.9055	$2\frac{1}{2}$	$3\frac{1}{2}$	$5\frac{1}{4}$
	5315	75	2.9528	160	6.2992	$2\frac{11}{16}$	$3\frac{3}{4}$	$5\frac{5}{8}$
	5316	80	3.1496	170	6.6929	$2\frac{11}{16}$	4	6
	5317	85	3.3465	180	7.0866	$2\frac{7}{8}$	$4\frac{1}{4}$	$6\frac{1}{4}$
	5318	90	3.5433	190	7.4803	$2\frac{7}{8}$	$4\frac{1}{2}$	$6\frac{5}{8}$
	5319	95	3.7402	200	7.8740	$3\frac{1}{16}$	$4\frac{3}{4}$	7
	5320	100	3.9370	215	8.4646	$3\frac{1}{4}$	5	$7\frac{1}{2}$
	5321	105	4.1339	225	8.8583	$3\frac{7}{16}$	$5\frac{1}{4}$	$7\frac{3}{4}$
	5322	110	4.3307	240	9.4488	$3\frac{5}{8}$	$5\frac{1}{2}$	$8\frac{1}{4}$
	5324	120	4.7244	260	10.2362	$4\frac{1}{8}$	$6\frac{1}{16}$	$8\frac{13}{16}$
	5326	130	5.1181	280	11.0236	$4\frac{3}{8}$	$6\frac{3}{16}$	$9\frac{1}{16}$
	5328	140	5.5118	300	11.8110	$4\frac{1}{2}$	7	$10\frac{1}{4}$
	5330	150	5.9055	320	12.5984	$4\frac{7}{8}$	$7\frac{1}{2}$	11
	5336	180	7.0866	380	14.9606	$5\frac{3}{4}$	$9\frac{1}{8}$	$12\frac{3}{16}$

5100 SERIES

CS MCS	5128	140	5.5118	220	8.6615	$2\frac{1}{2}$	$6\frac{3}{8}$	$7\frac{7}{8}$
	5130	150	5.9055	235	9.2520	$2\frac{5}{8}$	$6\frac{1}{8}$	$8\frac{3}{8}$
	5132	160	6.2992	250	9.8425	$2\frac{7}{8}$	$7\frac{1}{4}$	$8\frac{7}{8}$
	5134	170	6.6929	265	10.4331	3	$7\frac{5}{8}$	$9\frac{1}{2}$
	5136	180	7.0866	280	11.0236	$3\frac{1}{4}$	$8\frac{1}{16}$	$10\frac{1}{16}$
	5138	190	7.4803	300	11.8110	$3\frac{3}{8}$	$8\frac{5}{8}$	$10\frac{5}{8}$
	5140	200	7.8740	320	12.5984	$3\frac{1}{2}$	$9\frac{1}{8}$	$11\frac{3}{8}$
	5142	210	8.2677	340	13.3858	$3\frac{3}{4}$	$9\frac{5}{8}$	$12\frac{3}{8}$

SKF METRIC ROLLER BEARINGS SPHERICAL SELF-ALIGNING TYPE

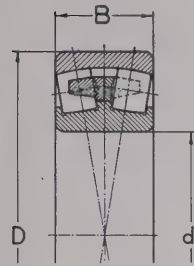
The spherical roller bearing of the "C" type design, has unexcelled radial load carrying capacity due to the number, size and shape of the rollers, and the accuracy with which they are guided. Being inherently self-aligning, angular misalignment between the shaft and the housing has no detrimental effect and the full capacity is always available for useful work. Considerable thrust load may be carried in either direction.

The new design eliminates the integral inner ring flange and adjacent grinding undercuts permitting use of longer rollers and longer effective contacts between rollers and rings. The result is increased capacity over the original design by 25% to 50% and increase in service life 2 to 3½ times.

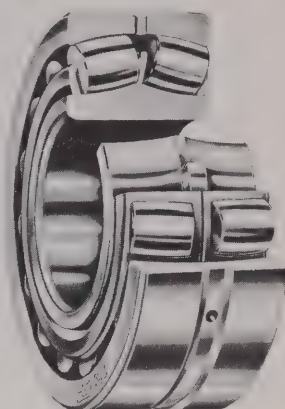
Also available with bearing bore tapered 1" per foot. Add "K" suffix to regular number.



Original Design



New Design



SERIES 222 LIGHT TYPE

Bearing No.	BORE (d)		O. DIA. (D)		WIDTH (B)	
	Mm	Inches	Mm	Inches	Mm	Inches
*22206C	30	1.1811	62	2.4409	20	.7874
22207C	35	1.3780	72	2.8346	23	.9055
*22208C	40	1.5748	80	3.1496	23	.9055
22209C	45	1.7717	85	3.3465	23	.9055
22210C	50	1.9685	90	3.5433	23	.9055
22211C	55	2.1654	100	3.9370	25	.9843
22212C	60	2.3622	110	4.3307	28	1.1024
22213C	65	2.5591	120	4.7244	31	1.2205
22214C	70	2.7559	125	4.9213	31	1.2205
22215C	75	2.9528	130	5.1181	31	1.2205
22216C	80	3.1496	140	5.5118	33	1.299
22217C	85	3.3465	150	5.9055	36	1.417
22218C	90	3.5433	160	6.2992	40	1.575
22219C	95	3.7402	170	6.6929	43	1.693
22220C	100	3.9370	180	7.0866	46	1.811
22222C	110	4.3307	200	7.8740	53	2.087
22224C	120	4.7244	215	8.4646	58	2.283
22226C	130	5.1181	230	9.0551	64	2.520
22228C	140	5.5118	250	9.8425	68	2.677
22230C	150	5.9055	270	10.6299	73	2.874
22232C	160	6.2992	290	11.4173	80	3.150
22234C	170	6.6929	310	12.2047	86	3.386
22236C	180	7.0866	320	12.5984	86	3.386
22238C	190	7.4803	340	13.3858	92	3.622
22240C	200	7.8740	360	14.1732	98	3.858
22244C	220	8.6614	400	15.7480	108	4.252
22248	240	9.4488	440	17.3228	120	4.7244
22252	260	10.2362	480	18.8976	130	5.1181

Sizes 22206 to 22214 inclusive are not equipped with lubricating groove and holes.

SERIES 212 NARROW TYPE

*21207	35	1.3780	72	2.8346	17	.6693
*21209	45	1.7717	85	3.3465	19	.7480
*21210	50	1.9685	90	3.5433	20	.7874
*21211	55	2.1654	100	3.9370	21	.8268
*21212	60	2.3622	110	4.3307	22	.8661

*Consult for availability.

Most sizes are now supplied with grease groove and holes in outer race. Suffix symbol W-33.

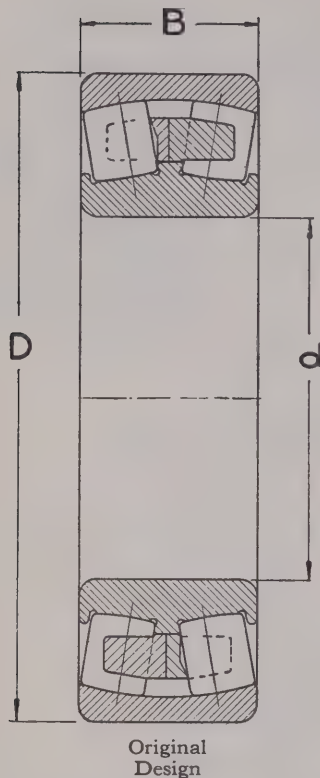
SERIES 223 MEDIUM TYPE

Bearing No.	BORE (d)		O. DIA. (D)		WIDTH (B)	
	Mm	Inches	Mm	Inches	Mm	Inches
22308C	40	1.5748	90	3.5433	33	1.299
22309C	45	1.7717	100	3.9370	36	1.417
22310C	50	1.9685	110	4.3307	40	1.575
22311C	55	2.1654	120	4.7244	43	1.693
22312C	60	2.3622	130	5.1181	46	1.811
22313C	65	2.5591	140	5.5118	48	1.890
22314C	70	2.7559	150	5.9055	51	2.008
22315C	75	2.9528	160	6.2992	55	2.165
22316C	80	3.1496	170	6.6929	58	2.283
22317C	85	3.3465	180	7.0866	60	2.362
22318C	90	3.5433	190	7.4803	64	2.520
22319C	95	3.7402	200	7.8740	67	2.638
22320C	100	3.9370	215	8.4646	73	2.874
22322C	110	4.3307	240	9.4488	80	3.150
22324C	120	4.7244	260	10.2362	86	3.386
22326C	130	5.1181	280	11.0236	93	3.661
22328C	140	5.5118	300	11.8110	102	4.016
22330C	150	5.9055	320	12.5984	108	4.252
22332C	160	6.2992	340	13.3858	114	4.488
22334C	170	6.6929	360	14.1732	120	4.724
22336C	180	7.0866	380	14.9606	126	4.961
22338C	190	7.4803	400	15.7480	132	5.197
22340C	200	7.8740	420	16.5354	138	5.433
22344	220	8.6614	460	18.1102	145	5.709
22348	240	9.4488	500	19.6850	155	6.1024
22352	260	10.2362	540	21.2598	165	6.4961

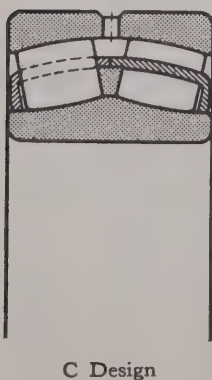
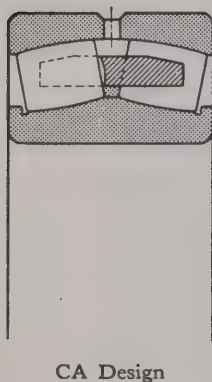
Sizes 22308 C to 22312 C inclusive are not equipped with lubricating groove and holes.

SERIES 213 MEDIUM TYPE NARROW WIDTH

*21305	25	.9843	62	2.4409	17	.6693
21306	30	1.1811	72	2.8346	19	.7480
21307	35	1.3780	80	3.1496	21	.8268
*21308	40	1.5748	90	3.5433	23	.9055
21309	45	1.7717	100	3.9370	25	.9843
*21310	50	1.9685	110	4.3307	27	1.0630
*21311	55	2.1654	120	4.7244	29	1.1417
*21312	60	2.3622	130	5.1181	31	1.2205
*21313	65	2.5591	140	5.5118	33	1.2992
*21314	70	2.7559	150	5.9055	35	1.3780
*21315	75	2.9528	160	6.2992	37	1.4567
*21316	80	3.1496	170	6.6929	39	1.5354

SKF ROLLER BEARINGS**SPHERICAL SELF-ALIGNING ROLLER BEARINGS (continued)****SERIES 231 EXTRA LIGHT TYPE**

BEARING NUMBER		Bore d		Outside Diam. D		Width B	
Original Design	"C" Design	Mm	in.	Mm	in.	Mm	in.
23122	*23122 C	110	4.3307	180	7.0866	56	2.2047
23124	*23124 C	120	4.7244	200	7.8740	62	2.4409
23126	*23126 C	130	5.1181	210	8.2677	64	2.5197
23128	*23128 C	140	5.5118	225	8.8583	68	2.6772
23130	*23130 C	150	5.9055	250	9.8425	80	3.1496
23132	*23132 C	160	6.2992	270	10.6299	86	3.3858
23134	*23134 C	170	6.6929	280	11.0236	88	3.4646
23136	*23136 C	180	7.0866	300	11.8110	96	3.7795
	23138 C	190	7.4803	320	12.5984	104	4.0945
23140	23140 C	200	7.8740	340	13.3858	112	4.4094
23144	*23144 C	220	8.6614	370	14.5669	120	4.7244
23148	*23148 C	240	9.4488	400	15.7480	128	5.0394
	23152 CA	260	10.2362	440	17.3228	144	5.6693
23156	*23156 CA	280	11.0236	460	18.1102	146	5.7480
	23160 CA	300	11.8110	500	19.6850	160	6.2992
23164	*23164 CA	320	12.5984	540	21.2598	176	6.9291
23168	*23168 CA	340	13.3858	580	22.8346	190	7.4803
23172	*23172 CA	360	14.1732	600	23.6220	192	7.5591
23176	*23176 CA	380	14.9606	620	24.4094	194	7.6378
23180	*23180 CA	400	15.7480	650	25.5906	200	7.8740
	23184 CA	420	16.5354	700	27.5591	224	8.8189
23188	*23188 CA	440	17.3228	720	28.3465	226	8.8976
	23192 CA	460	18.1102	760	29.9213	240	9.4488
23196	*23196 CA	480	18.8976	790	31.1024	248	9.7638
231/500	*231/500 CA	500	19.6850	830	32.6772	264	10.3937
231/530	*231/530 CA	530	20.8661	870	34.2520	272	10.7087
	231/560 CA	560	22.0472	920	36.2205	280	11.0236
	231/600 CA	600	23.6220	980	38.5827	300	11.8110
	231/630 CA	630	24.8031	1030	40.5512	315	12.4016
	231/670 CA	670	26.3780	1090	42.9134	336	13.2283
	231/710 CA	710	27.9528	1150	45.2756	345	13.5827
	231/750 CA	750	29.5276	1220	48.0315	365	14.3701
	231/800 CA	800	31.4961	1280	50.3937	375	14.7638
	231/850 CA	850	33.4646	1360	53.5433	400	15.7480

**SERIES 232 HEAVY TYPE**

	23220 C	100	3.9370	180	7.0866	60.3	2.3740
	23222 C	110	4.3307	200	7.8740	69.8	2.7480
	23224 C	120	4.7244	215	8.4646	76	2.9921
	23226 C	130	5.1181	230	9.0551	80	3.1496
	23228 C	140	5.5118	250	9.8425	88	3.4646
	23230 C	150	5.9055	270	10.6299	96	3.7795
	23232 C	160	6.2992	290	11.4173	104	4.0945
	23234 C	170	6.6929	310	12.2047	110	4.3307
	23236 C	180	7.0866	320	12.5984	112	4.4094
	23238 C	190	7.4803	340	13.3858	120	4.7244
	23240 C	200	7.8740	360	14.1732	128	5.0394
	23244 C	220	8.6614	400	15.7480	144	5.6693
23248	*23248 CA	240	9.4488	440	17.3228	160	6.2992
23252	*23252 CA	260	10.2362	480	18.8976	174	6.8504
	23256 CA	280	11.0236	500	19.6850	176	6.9291
23260	*23260 CA	300	11.8110	540	21.2598	192	7.5591
	23264 CA	320	12.5984	580	22.8346	208	8.1890
	23268 CA	340	13.3858	620	24.4094	224	8.8189
23272	*23272 CA	360	14.1732	650	25.5906	232	9.1339
23276	*23276 CA	380	14.9606	680	26.7717	240	9.4488
	23280 CA	400	15.7480	720	28.3465	256	10.0787
23284	23284 CA	420	16.5354	760	29.9213	272	10.7087
23288	*23288 CA	440	17.3228	790	31.1024	280	11.0236
	23292 CA	460	18.1102	830	32.6772	296	11.6535
	23296 CA	480	18.8976	870	34.2520	310	12.2047
232/500	*232/500 CA	500	19.6850	920	36.2205	336	13.2283
	232/530 CA	530	20.8661	980	38.5827	355	13.9764
	*232/560 CA	560	22.0472	1030	40.5512	365	14.3701
	*232/600 CA	600	23.6220	1090	42.9134	388	15.2756
	*232/630 CA	630	24.8031	1150	45.2756	412	16.2205
	232/670 CA	670	26.3780	1220	48.0315	438	17.2441
	*232/710 CA	710	27.9528	1280	50.3937	450	17.7165
	*232/750 CA	750	29.5276	1360	53.5433	475	18.7008

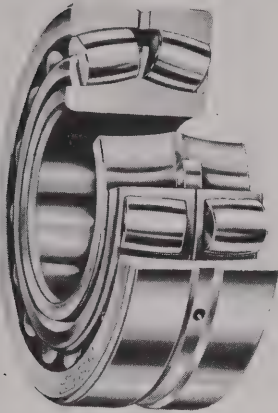
*Consult for availability.

Most sizes are now supplied with grease groove and holes in outer race. Suffix symbol W-33.

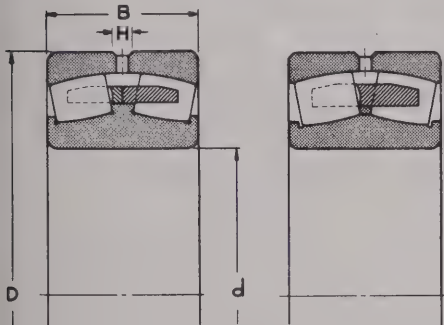
SKF ROLLER BEARINGS

SPHERICAL SELF-ALIGNING ROLLER BEARINGS (continued)

SERIES 230 EXTRA-EXTRA LIGHT TYPE



Unexcelled for capacity. Inherently self-aligning. Angular misalignment between the shaft and housing has no detrimental effect. The full capacity of the bearing is always available for useful work. In addition to radial load, will carry substantial thrust load in either direction. Available for direct or adapter mounting.



Series 230

Series 230CA

Bearing Number	Bore d		Outside Diam. D		Width B		H
	Mm	Inches	Mm	Inches	Mm	Inches	
23024	120	4.7244	180	7.0866	46	1.8110	.219
23026	130	5.1181	200	7.8740	52	2.0472	.328
23028	140	5.5118	210	8.2677	53	2.0866	.328
23030	150	5.9055	225	8.8583	56	2.2047	.328
23032	160	6.2992	240	9.4488	60	2.3622	.438
23034	170	6.6929	260	10.2362	67	2.6378	.438
23036	180	7.0866	280	11.0236	74	2.9134	.547
23038	190	7.4803	290	11.4173	75	2.9528	.547
23040	200	7.8740	310	12.2047	82	3.2283	.547
23044	220	8.6614	340	13.3858	90	3.5433	.547
23048	240	9.4488	360	14.1732	92	3.6220	.547
23052 C	260	10.2362	400	15.7480	104	4.0945	.656
23056	280	11.0236	420	16.5354	106	4.1732	.656
23060	300	11.8110	460	18.1102	118	4.6457	.656
23064	320	12.5984	480	18.8976	121	4.7638	.656
23068	340	13.3858	520	20.4724	133	5.2362	.875
23072 CA	360	14.1732	540	21.2598	134	5.2756	.875
23076	380	14.9606	560	22.0472	135	5.3150	.875
23080	400	15.7480	600	23.6220	148	5.8268	.875
23084	420	16.5354	620	24.4094	150	5.9055	.875
23088	440	17.3228	650	25.5906	157	6.1811	.875
23092	460	18.1102	680	26.7717	163	6.4173	.875
23096	480	18.8976	700	27.5591	165	6.4961	.875
230/500	500	19.6850	720	28.3465	167	6.5748	.875
230/530	530	20.8661	780	30.7087	185	7.2835	.875
230/560	560	22.0472	820	32.2835	195	7.6772	.875
230/600 CA	600	23.6220	870	34.2520	200	7.8740	.875
•230/630 CA	630	24.8031	920	36.2205	212	8.3465	.875
•230/670	670	26.3780	980	38.5827	230	9.0551	.875
•230/710 CA	710	27.9528	1030	40.5512	236	9.2913	.875
230/750	750	29.5276	1090	42.9134	250	9.8425	.875
•230/800 CA	800	31.4961	1150	45.2756	258	10.1575	.875
•230/850 CA	850	33.4646	1220	48.0315	272	10.7087	.875
•230/900 CA	900	35.4331	1280	50.3937	280	11.0236	.875
230/950 CA	950	37.4016	1360	53.5433	300	11.8110	.875

*Consult for availability.

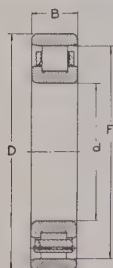
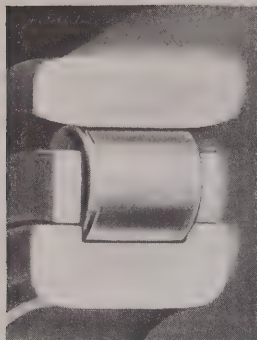
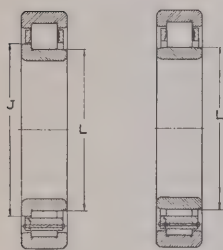
Most sizes are now supplied with grease groove and holes in outer race. Suffix symbol W-33.

SPHERICAL ROLLER BEARINGS FOR VIBRATING SCREENS



The SKF Screen Bearing (illustrated above) has been specifically developed to meet the high loads, speeds, and eccentricities of modern vibrating screen operation. The design of this bearing provides high load-carrying capacity and long fatigue life; a cage which permits the bearing to operate at combined high eccentricity and speed.

Bearing Number	Bore d		Outside Diam. D		Width B	
	Mm	Inches	Mm	Inches	Mm	Inches
452314	70	2.7559	150	5.9055	51	2.0079
452315	75	2.9528	160	6.2992	55	2.1654
452316	80	3.1496	170	6.6929	58	2.2835
452317	85	3.3465	180	7.0866	60	2.3622
452318	90	3.5433	190	7.4803	64	2.5197
452319	95	3.7402	200	7.8740	67	2.6378
452320	100	3.9370	215	8.4646	73	2.8740
452322	110	4.3307	240	9.4488	80	3.1496
452324	120	4.7244	260	10.2362	86	3.3858
452326	130	5.1181	280	11.0236	93	3.6614
452328	140	5.5118	300	11.8110	102	4.0157
452332	160	6.2992	340	13.3858	114	4.4882

SKF CYLINDRICAL ROLLER BEARINGS**200 SERIES—LIGHT****N Type****NJ Type****NU Type**

BEARING NUMBER			d		D		B		F In.	L**	
			Mm	In.	Mm	In.	Mm	In.		Max.	Min.
N 205			25	.9843	52	2.0472	15	.5906	1.772		
N 206	NJ 206		30	1.1811	62	2.4409	16	.6299	2.106	1.5154	1.5146
N 207	NJ 207		35	1.3780	72	2.8346	17	.6693	2.433	1.7238	1.7230
N 208	NJ 208		40	1.5748	80	3.1496	18	.7087	2.756	1.9679	1.9671
N 209	NJ 209		45	1.7717	85	3.3465	19	.7480	2.953	2.1646	2.1638
N 210	NJ 210	NU 210	50	1.9685	90	3.5433	20	.7874	3.165	2.3772	2.3764
N 211	NJ 211	NU 211	55	2.1654	100	3.9370	21	.8268	3.484	2.6173	2.6163
N 212	NJ 212	NU 212	60	2.3622	110	4.3307	22	.8661	3.839	2.8929	2.8919
N 213	NJ 213	NU 213	65	2.5591	120	4.7244	23	.9055	4.157	3.1331	3.1321
N 214	NJ 214	NU 214	70	2.7559	125	4.9213	24	.9449	4.350	3.3258	3.3246
N 215	NJ 215	NU 215	75	2.9528	130	5.1181	25	.9843	4.587	3.4833	3.4821
N 216	NJ 216	NU 216	80	3.1496	140	5.5118	26	1.0236	4.933	3.7510	3.7498
N 217	NJ 217	NU 217	85	3.3465	150	5.9055	28	1.1024	5.268	4.0067	4.0055
N 218	NJ 218	NU 218	90	3.5433	160	6.2992	30	1.1811	5.630	4.2114	4.2102
N 219	NJ 219	NU 219	95	3.7402	170	6.6929	32	1.2598	5.965	4.4673	4.4661
N 220	NJ 220		100	3.9370	180	7.0866	34	1.3386	6.299	4.7232	4.7220
N 222	NJ 222	NU 222	110	4.3307	200	7.8740	38	1.4961	7.028	5.2152	5.2138
N 224			120	4.7244	215	8.4646	40	1.5748	7.539		
		NU 226	130	5.1181	230	9.0551	40	1.5748	8.032	6.1402	6.1386
N 228			140	5.5118	250	9.8425	42	1.6535	8.701	6.6520	6.6504

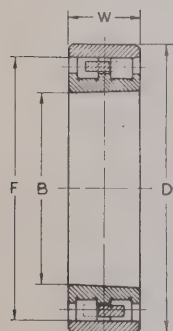
300 SERIES—MEDIUM

N 305	NJ 305		25	.9843	62	2.4409	17	.6693	2.087	1.3776	1.3768
N 306	NJ 306	NU 306	30	1.1811	72	2.8346	19	.7480	2.441	1.6531	1.6524
N 307	NJ 307	NU 307	35	1.3780	80	3.1496	21	.8268	2.685	1.8183	1.8175
N 308	NJ 308	NU 308	40	1.5748	90	3.5433	23	.9055	3.051	2.1057	2.1049
N 309	NJ 309	NU 309	45	1.7717	100	3.9370	25	.9843	3.406	2.3024	2.3016
N 310	NJ 310	NU 310	50	1.9685	110	4.3307	27	1.0630	3.740	2.5583	2.5575
N 311	NJ 311	NU 311	55	2.1654	120	4.7244	29	1.1417	4.114	2.7748	2.7738
N 312	NJ 312	NU 312	60	2.3622	130	5.1181	31	1.2205	4.449	3.0307	3.0297
N 313	NJ 313	NU 313	65	2.5591	140	5.5118	33	1.2992	4.783	3.2866	3.2856
N 314	NJ 314	NU 314	70	2.7559	150	5.9055	35	1.3780	5.118	3.5423	3.5411
N 315	NJ 315	NU 315	75	2.9528	160	6.2992	37	1.4567	5.492	3.7589	3.7577
N 316	NJ 316	NU 316	80	3.1496	170	6.6929	39	1.5354	5.787	4.0541	4.0530
N 317	NJ 317	NU 317	85	3.3465	180	7.0866	41	1.6142	6.142	4.2508	4.2496
N 318	NJ 318	NU 318	90	3.5433	190	7.4803	43	1.6929	6.496	4.5264	4.5252
N 319	NJ 319	NU 319	95	3.7402	200	7.8740	45	1.7717	6.831	4.7823	4.7811
N 320	NJ 320	NU 320	100	3.9370	215	8.4646	47	1.8504	7.303	5.0972	5.0961
N 322	NJ 322	NU 322	105	4.1339	225	8.8583	49	1.9291	7.677	5.3136	5.3122
N 324	NJ 324	NU 324	110	4.3307	240	9.4488	50	1.9685	8.150	5.6285	5.6272
N 326	NJ 326	NU 326	120	4.7244	260	10.2362	55	2.1654	8.898	6.0616	6.0602
N 328	NJ 328	NU 328	130	5.1181	280	11.0236	58	2.2835	9.567	6.5732	6.5717
N 330	NJ 330	NU 330	140	5.5118	300	11.8110	62	2.4409	10.236	7.0850	7.0835
			150	5.9055	320	12.5984	65	2.5591	10.906	7.5965	7.5949

**Normal dimensions of inner ring roller path.

DOUBLE ROW CYLINDRICAL ROLLER BEARINGS**NN-3000-K SERIES**

Super-Precision



Tapered Bore—1" per foot.

This series is made to SKF specification C 481 for use on cutting tool spindles and to specification C 4817 for use in the most exacting applications, such as spindles in grinding machines.

Bearing No.	BORE (B)		O. DIA. (D)		WIDTH (W)		Fillet Radius Inches	F Apprx. Inches	SHOULDER DIAMETER	
	Mm	Inches	Mm	Inches	Mm	Inches			Shaft	Hsg.
NN-3005K	25	.9843	47	1.8504	16	.6299	.024	1.63	1 1/4	1 1/2
NN-3006K	30	1.1811	55	2.1654	19	.7480	.039	1.91	1 1/4	1 1/2
NN-3007K	35	1.3780	62	2.4409	20	.7874	.039	2.17	1 1/4	1 1/2
NN-3008K	40	1.5748	68	2.6772	21	.8268	.039	2.40	1 1/4	1 1/2
NN-3009K	45	1.7717	75	2.9528	23	.9055	.039	2.66	2	2 1/4
NN-3010K	50	1.9685	80	3.1496	23	.9055	.039	2.85	2 1/4	2 1/2
NN-3011K	55	2.1654	90	3.5433	26	1.0236	.039	3.19	2 1/4	3 1/4
NN-3012K	60	2.3622	95	3.7402	26	1.0236	.039	3.39	2 1/4	3 1/4
NN-3013K	65	2.5591	100	3.9370	26	1.0236	.039	3.58	2 1/4	3 1/4
NN-3014K	70	2.7559	110	4.3307	30	1.1811	.039	3.94	3 1/4	4 1/4
NN-3015K	75	2.9528	115	4.5276	30	1.1811	.039	4.13	3 1/4	4 1/4
NN-3016K	80	3.1496	125	4.9213	34	1.3386	.039	4.45	3 1/4	4 1/4
NN-3017K	85	3.3465	130	5.1181	34	1.3386	.039	4.65	3 1/4	4 1/4
NN-3018K	90	3.5433	140	5.5118	37	1.4567	.059	5.00	3 1/4	5 1/4
NN-3019K	95	3.7402	145	5.7087	37	1.4567	.059	5.20	4 1/4	5 1/4
NN-3020K	100	3.9370	150	5.9055	37	1.4567	.079	5.39	4 3/4	5 1/2
NN-3021K	105	4.1339	160	6.2992	41	1.6142	.079	5.75	4 3/4	5 1/2
NN-3022K	110	4.3307	170	6.6929	45	1.7717	.079	6.10	4 3/4	6 1/4
NN-3024K	120	4.7244	180	7.0866	46	1.8110	.079	6.50	5 1/4	6 1/4
NN-3026K	130	5.1181	200	7.8740	52	2.0472	.079	7.17	5 1/4	7 1/4
NN-3028K	140	5.5118	210	8.2677	53	2.0866	.079	7.56	5 1/4	7 1/4
NN-3030K	150	5.9055	225	8.8583	56	2.2047	.079	8.11	6 3/4	8 3/4
NN-3032K	160	6.2992	240	9.4488	60	2.3622	.079	8.62	6 3/4	8 3/4
NN-3034K	170	6.6929	260	10.2362	67	2.6378	.079	9.29	7 3/4	9 3/4
NN-3036K	180	7.0866	280	11.0236	74	2.9134	.079	10.04	7 3/4	10 1/2
NN-3038K	190	7.4803	290	11.4173	75	2.9528	.079	10.43	8	10 1/2
NN-3040K	200	7.8740	310	12.2047	82	3.2283	.079	11.10	8 3/4	11 1/2
NN-3044K	220	8.6614	340	13.3858	90	3.5433	.098	12.20	9 1/4	12 1/2
NN-3048K	240	9.4488	360	14.1732	92	3.6220	.098	12.99	10	13 3/4

TIMKEN® BEARINGS

REGISTERED TRADE MARK
THE TIMKEN ROLLER BEARING COMPANY

Timken tapered roller bearings are manufactured for automobiles, motor trucks, railroad cars and locomotives and all kinds of industrial machinery.

Illustrated below are various types and designs of Timken Bearings being produced. Because of space limitations this catalog does not cover all available types.

TIMKEN BEARING TYPES, SINGLE ROW, MULTIPLE ROW, AND THRUST



TS



TSF



TSK



TST



TSS



TSSF



TSG



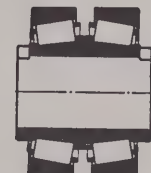
TDI



TDIT



TDITP



TDIKE



TDIS



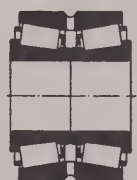
TDO



TDODS



TDOS



TNA



TNASW



TNASWE



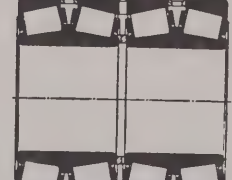
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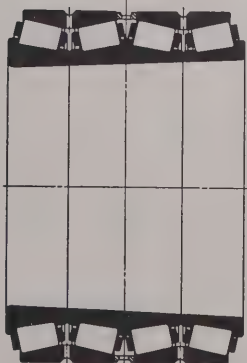
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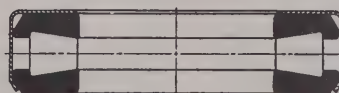
TNASWH



TQO



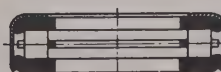
TQIT



TTC



TTCS



TTSP



TTHD

NEED HELP ON BEARINGS—CALL US

TIMKEN BEARINGSREGISTERED TRADE MARK
THE TIMKEN ROLLER BEARING COMPANY**TOLERANCE CHART**

As can be noted from the tables below, there is a difference in tolerance and "run-out" accuracy of Timken Tapered Roller Bearings carrying the same part number. It is therefore important when ordering for replacement to consider the accuracy performance expected of the unit into which the bearings are to be installed.

Class #4 and #2 are standard production bearings suited for the majority of automotive and industrial application and are identified merely with the cone and cup number stamped clearly on each part.

The suffix Class #3 or #0 is added to the regular number to denote bearings for *precision* work with minimum "run-out," such as in machine tool spindles. When removing Timken bearings from machine tools

spindles and similar equipment for purpose of replacement, look for either a #3 or #0 etched on the face of the part usually 180 degrees from the part number.

Class #00 or the "Double Zero" Bearing is a recent development that has been applied to just a limited number of sizes, but facilities are growing rapidly and the range of available sizes is expanding.

CLASS ➔		4	2	3	0	00
cone bore		cone bore tolerance				
up to 2½" incl. over 2½" to 12" incl. over 12" to 24" incl. over 24" to 36" incl. over 36" to 48" incl. over 48"		+ .0005" — .0000"	+ .0005" — .0000"	+ .0005" — .0000"	+ .0005" — .0000"	+ .0003" — .0000"
		+ .0010" — .0000"	+ .0010" — .0000"	+ .0005" — .0000"	+ .0005" — .0000"	+ .0003" — .0000"
		+ .0020" — .0000"	+ .0020" — .0000"	+ .0010" — .0000"	—	—
		+ .0030" — .0000"	—	+ .0015" — .0000"	—	—
		+ .0040" — .0000"	—	+ .0020" — .0000"	—	—
		+ .0050" — .0000"	—	+ .0030" — .0000"	—	—
cup o.d.		cup o.d. tolerance				
up to 12" incl. over 12" to 24" incl. over 24" to 36" incl. over 36" to 48" incl. over 48"		+ .0010" — .0000"	+ .0010" — .0000"	+ .0005" — .0000"	+ .0005" — .0000"	+ .0003" — .0000"
		+ .0020" — .0000"	+ .0020" — .0000"	+ .0010" — .0000"	—	—
		+ .0030" — .0000"	+ .0020" — .0000"	+ .0015" — .0000"	—	—
		+ .0040" — .0000"	—	+ .0020" — .0000"	—	—
		+ .0050" — .0000"	—	+ .0030" — .0000"	—	—
		—	—	—	—	—
bearing type		overall bearing width tolerance				
TS	up to 4" bore, incl.	+ .008" — .000"	+ .008" — .000"	+ .008" — .008"	+ .008" — .008"	+ .008" — .008"
	over 4" to 12" bore, incl.	+ .014" — .010"	+ .008" — .000"	+ .008" — .008"	+ .008" — .008"	+ .008" — .008"
	over 12" bore - up to 20" cup o.d. incl.	+ .015" — .015"	+ .015" — .015"	+ .008" — .008"	—	—
	over 12" bore - over 20" cup o.d.	+ .015" — .015"	+ .015" — .015"	+ .015" — .015"	—	—
TNA	up to 5" bore, incl.	+ .010" — .000"	+ .010" — .000"	+ .010" — .000"	—	—
	over 5" bore	+ .030" — .000"	+ .030" — .000"	+ .030" — .000"	—	—
TDI and TDO	up to 4" bore, incl.	+ .016" — .000"	+ .016" — .000"	+ .016" — .016"	+ .016" — .016"	+ .016" — .016"
	over 4" to 12" bore, incl.	+ .028" — .020"	+ .016" — .016"	+ .016" — .016"	+ .016" — .016"	+ .016" — .016"
	over 12" bore - up to 20" cup o.d. incl.	+ .030" — .030"	+ .030" — .030"	+ .016" — .016"	—	—
	over 12" bore - over 20" cup o.d.	+ .030" — .030"	+ .030" — .030"	+ .030" — .030"	—	—
TQO and TQIT	all sizes	+ .060" — .060"	—	—	—	—
bearing o.d.		assembled bearing maximum runout				
up to 12" incl. over 12" to 24" incl. over 24" to 36" incl. over 36"		.0020"	.0015"	.0003"	.00015"	.000075"
		.0020"	.0015"	.0007"	—	—
		.0030"	.0020"	.0020"	—	—
		.0030"	—	.0030"	—	—

TIMKEN® BEARINGS

REGISTERED TRADE MARK
THE TIMKEN ROLLER BEARING COMPANY

TAG MARKING OF PRECISION TIMKEN ROLLER BEARINGS

The marking is a code to indicate the accuracy of the bearing and its purpose is to facilitate selective assembly in your plant.

NOTE—ALL #00 AND #0 BEARINGS, CUPS AND CONES ARE SHIPPED WIRED TOGETHER AS A COMPLETE UNIT.

#3 BEARINGS, CUPS AND CONES MAY BE SHIPPED SEPARATELY.

COMPLETE BEARING TAG

5 5 1 1 +8 57 -1 TIMKEN®

FIRST NUMBER

indicates
Variation in Cone Bore Over
Nominal Dimension

CONE BORE TOLERANCE

+ .0003 for #00 up to 10 1/2" Max.
- .0000 Brg. O.D.
+ .0005 for #0 and #3 up to 12" Bore
- .0000 incl.
+ .0010 for #3 over 12" to 24" Bore
- .0000 incl.
+ .0015 for #3 over 24" to 36" Bore
- .0000 incl.
+ .002 for #3 over 36" to 48" Bore
- .000 incl.
+ .003 for #3 over 48" Bore
- .000
.00000 to .0001 designated by 1
.00011 to .0002 designated by 2
.00021 to .0003 designated by 3
.00031 to .0004 designated by 4
.00041 to .0005 designated by 5
ETC. UP TO
.00291 to .0030 designated by 30

SEVENTH NUMBER

indicates
Numerical number of bearing
in yearly manufacture.
Found only on "00" bearings.

SIXTH NUMBER

indicates
Year of manufacture
57 1957
58 1958
ETC.
Found only on "00" bearings.

SECOND NUMBER

indicates
Variation in Cup O.D. Over
Nominal Dimension

CUP O.D. TOLERANCE

+ .0003 for #00 up to 10 1/2" Max.
- .0000 Brg. O.D.
+ .0005 for #0 and #3 up to 12" O.D.
- .0000 incl.
+ .0010 for #3 over 12" to 24" O.D.
- .0000 incl.
+ .0015 for #3 over 24" to 36" O.D.
- .0000 incl.
+ .002 for #3 over 36" to 48" O.D.
- .000 incl.
+ .003 for #3 over 48" O.D.
- .000
.00000 to .0001 designated by 1
.00011 to .0002 designated by 2
.00021 to .0003 designated by 3
.00031 to .0004 designated by 4
.00041 to .0005 designated by 5
ETC. UP TO
.00291 to .0030 designated by 30

THIRD NUMBER

indicates
Runout (Total Indicator Reading) of
Cone Assembly in Cup

.000075 - Max. Runout for #00
.00015 - Max. Runout for #0
.0003 - Max. Runout for #3 up to 12" O.D. incl.
.0007 - Max. Runout for #3 over 12" to 24" O.D. incl.
.002 - Max. Runout for #3 over 24" to 36" O.D. incl.
.003 - Max. Runout for #3 over 36" O.D.
.000000 to .000075 designated by
Actual Amount in millionths.
.000076 to .0001 designated by 1
.00011 to .0002 designated by 2
.00021 to .0003 designated by 3
ETC. UP TO
.00291 to .0030 designated by 30
Copper Dot (•) on Cone Faces indicates Point
of Max. Runout.

FOURTH NUMBER

indicates
Runout (Total Indicator Reading) of
Cup on Assembled Cone

.000075 - Max. Runout for #00
.00015 - Max. Runout for #0
.0003 - Max. Runout for #3 up to 12" O.D. incl.
.0007 - Max. Runout for #3 over 12" to 24" O.D. incl.
.002 - Max. Runout for #3 over 24" to 36" O.D. incl.
.003 - Max. Runout for #3 over 36" O.D.
.000000 to .000075 designated by
Actual Amount in millionths.
.000076 to .0001 designated by 1
.00011 to .0002 designated by 2
.00021 to .0003 designated by 3
ETC. UP TO
.00291 to .0030 designated by 30
Copper Dot (•) on Cup Faces indicates Point
of Max. Runout.

FIFTH NUMBER

indicates
Variation in Overall Width

Width Tolerance #00, #0 and
#3 Bearings

+ .008" for #00 up to 10 1/2" max.
- .008" brg. O.D.
+ .008" for #0 and #3 up to 12" Bore
- .008" incl.
+ .008" for #3 over 12" to 24" Bore
- .008" incl. used with Cups up to 20"
O.D. incl.
+ .015" for #3 over 12" to 24" Bore
- .015" incl. used with Cups over 20"
O.D. incl.
+ .015" for #3 over 24" Bore

TAGS SHOWN BELOW USED WHEN #3 CUPS AND CONES ARE SHIPPED SEPARATELY. #00 AND #0 CUPS AND CONES ARE NOT SHIPPED SEPARATELY.

CONE TAG

SECOND NUMBER

Space
For
Cup
Left
Blank

1 1 +1 TIMKEN®

FOURTH NUMBER

Space
For
Cup
Left
Blank

THIRD NUMBER

indicates
Runout (Total Indicator Reading) of
Cone Assembly in Master Cup

.0002 - Max. Runout up to 12" Bore incl.
.0005 - Max. Runout over 12" to 24" Bore incl.
.0015 - Max. Runout over 24" to 36" Bore incl.
.002 - Max. Runout over 36" to 48" Bore
.00000 to .0001 designated by 1
.00011 to .0002 designated by 2
.00021 to .0003 designated by 3
ETC. UP TO
.00191 to .0020 designated by 20
Copper Dot (•) on Cone Faces
indicates Point of Max. Runout

FIFTH NUMBER

indicates
Variation in Cone
Stand in
Master Cup
STAND TOLERANCE

+ .004 up to 12" Bore incl.
- .004
+ .004 over 12" Bore used
- .004 with cup up to 20"
O.D. incl.
+ .007 over 12" Bore used
- .007 with cup over 20"
O.D.

CUP TAG

FIRST NUMBER

Space
For
Cone
Left
Blank

2 1 -2 TIMKEN®

SECOND NUMBER

indicates
Variation in Cup O.D. Over
Nominal Dimension

CUP O.D. TOLERANCE
+ .0005 up to 12" O.D. incl.
- .0000 up to 12" O.D. incl.
+ .0010 over 12" to 24" O.D.
- .0000 incl.
+ .0015 over 24" to 36" O.D.
- .0000 incl.
+ .002 over 36" to 48" O.D.
- .000 incl.
+ .003 over 48" O.D.
- .000
.00000 to .0001 des. by 1
.00011 to .0002 des. by 2
.00021 to .0003 des. by 3
.00031 to .0004 des. by 4
.00041 to .0005 des. by 5
ETC. UP TO
.00291 to .0030 des. by 30

THIRD NUMBER

Space
For
Cone
Left
Blank

FOURTH NUMBER

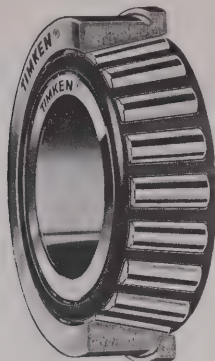
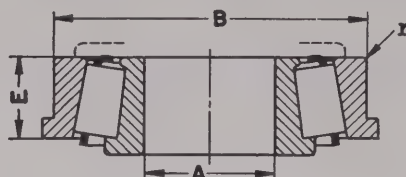
indicates
Runout (Total Indicator Reading) of
Cup on Assembled Master Cone

.0002 - Max. Runout up to 12" O.D. incl.
.0005 - Max. Runout over 12" to 24" O.D. incl.
.0015 - Max. Runout over 24" to 36" O.D. incl.
.002 - Max. Runout over 36" O.D.
.00000 to .0001 designated by 1
.00011 to .0002 designated by 2
.00021 to .0003 designated by 3
ETC. UP TO
.00191 to .0020 designated by 20
Copper Dot (•) on Cup Faces
indicates Point of Max. Runout

FIFTH NUMBER

indicates
Variation in Cup
Stand on
Master Cone
STAND TOLERANCE

+ .004 Cup used with Cone
- .004 up to 12" Bore incl.
+ .004 Cup up to 20" O.D.
- .004 incl. used with Cone
over 12" Bore
+ .008 Cup over 20" O.D.
- .008 used with Cone
over 12" Bore

**TIMKEN® BEARINGS**REGISTERED TRADE MARK
THE TIMKEN ROLLER BEARING COMPANY**single-row flanged cup
type TSF and TSSF****ARRANGED BY BORE DIAMETERS**

Note: Cup numbers
only are listed in
the tables below.
For complete bear-
ing also specify or
select cone number
required in TS or
TSS Series from
pages following.

bore A	outside diam. B	cup length E	cup radius r	part number	bore A	outside diam. B	cup length E	cup radius r	part number
.4720	1.2595	.3125	.046	A2126B	2.1250	4.3750	1.1875	.125	532B
.5900	1.3775	.3437	.046	A4138B	2.1250	5.0000	1.6250	.125	6220B
.6250	1.6875	.5313	.062	17520B	2.2500	3.3438	.3750	.062	LL408010B
.7500	1.5745	.3750	.046	A6157B	2.2500	3.4375	.5625	.062	L507910B
.7500	1.9380	.5625	.046	09195AB	2.2500	3.8437	.7656	.031	28622B
.7500	1.9380	.5625	.046	09195AB	2.2500	4.1250	.9375	.125	45220B
.7500	2.1250	.6250	.093	21212B	2.2500	4.2500	.8750	.031	453B
.7870	1.8504	.4375	.062	05185B	2.2500	4.6250	.9375	.125	66462B
.8750	2.0625	.5625	.062	1328B	2.2500	4.7500	1.2500	.125	612B
.9375	2.4375	.9375	.125	3620B	2.2650	3.8125	.7018	.031	382B
1.0000	1.9687	.3750	.040	07196B	2.3750	3.9370	.7813	.125	28921B
1.0000	2.0470	.5000	.062	07204B	2.3750	5.0000	1.3750	.125	65500B
1.0000	2.2400	.6250	.031	1729B	2.4375	5.1250	.9375	.125	HM911210B
1.0000	2.5625	.6250	.062	23256B	2.5000	4.1250	.6250	.080	39412B
1.1250	2.2500	.5313	.062	15520B	2.5938	4.8125	1.4375	.125	5535B
1.1250	2.3125	.5937	.046	1932B	2.6250	4.2500	.7500	.125	29520B
1.1250	2.3750	.6250	.031	1931B	2.6250	4.3307	.7500	.046	29521B
1.1250	2.8593	.6875	.062	41286B	2.6250	4.4375	.9375	.125	39520B
1.1562	2.6150	.7500	.031	2631B	2.6250	4.4375	.9375	.125	3920B
1.1875	2.4410	.5625	.062	17244B	2.6250	5.3447	1.7500	.125	6320B
1.2500	2.3125	.4219	.040	08231B	2.6875	4.3307	.7411	.046	394AB
1.2500	2.5000	.6250	.046	15250B	2.6875	4.8750	1.1875	.125	552B
1.2500	2.5000	.6250	.046	15250B	2.7559	4.7244	.9542	.031	472B
1.2500	2.6875	.6875	.062	02420B	2.8125	5.3750	1.2500	.125	632B
1.3125	3.1250	.6875	.062	43312B	2.8750	4.4375	.7500	.125	29620B
1.3125	2.7500	.7500	.062	2523B	2.8750	4.6250	.9375	.125	33462B
1.3125	2.8345	.6250	.062	26283B	2.9062	5.0000	1.1250	.125	563B
1.3125	2.8593	.9375	.125	3120B	3.0000	5.8750	1.7500	.125	6420B
1.3770	2.7170	.6250	.031	14276B	3.0625	4.8125	.8437	.080	34481B
1.4375	3.0000	.9375	.125	31520B	3.0625	5.0000	.8750	.125	42620B
1.5000	2.6875	.4688	.060	19268B	3.0625	5.1181	.8750	.125	42623B
1.5000	2.8345	.5625	.062	19283B	3.2500	5.2500	1.0313	.125	47620B
1.5000	2.8440	.6250	.031	16284B	3.2500	5.5115	1.1250	.125	572B
1.5000	3.1250	.9375	.125	3420B	3.2813	4.9375	.7813	.062	27620B
1.5150	2.5625	.3750	.031	13836B	3.3475	5.9090	1.4375	.125	742B
1.5625	3.1562	.9375	.125	3320B	3.3750	5.3750	.8750	.125	493B
1.5625	3.2187	.9375	.125	3329B	3.3750	6.0000	1.2500	.125	652B
1.5748	3.1495	.6250	.062	28315B	3.5390	6.6250	1.6250	.125	832B
1.6250	3.0000	.5625	.062	11300B	3.5625	6.3750	1.5000	.125	752B
1.6250	3.3750	.9375	.125	3820B	3.6250	8.4375	2.1250	.250	213843B
1.6250	3.4843	.6875	.062	44348B	3.7500	5.6250	1.0313	.062	47825B
1.6880	3.1250	.7500	.031	26822B	3.7500	6.0000	1.1875	.125	592B
1.6880	3.1496	.7018	.031	332B	3.7500	6.7500	1.5000	.125	77675B
1.7500	2.8125	.3750	.062	LL103010B	3.8125	5.8750	.9688	.125	42587B
1.7500	2.8750	.5938	.062	L102810B	4.0000	6.1875	1.0313	.125	52618B
1.7500	3.0312	.4688	.060	12303B	4.0000	6.3750	1.0313	.125	52637B
1.7500	3.6875	1.0000	.125	49368B	4.0000	6.6250	1.1875	.125	672B
1.7500	3.8750	.8125	.031	53387B	4.0000	7.5000	1.7500	.125	854B
1.7810	3.4375	.9375	.125	3525B	4.0000	7.5000	1.8125	.125	HH221410B
1.7960	3.2700	.7500	.125	25521B	4.0000	7.8740	1.3750	.125	98788B
1.8125	3.1250	.5313	.062	18620B	4.1250	7.1250	1.5000	.125	772B
1.8125	3.3464	.6875	.062	354B	4.2500	6.5000	1.0625	.125	56650B
1.8125	3.3464	.8125	.046	2924B	4.3125	6.2500	.6250	.125	37625B
1.8125	3.6250	.8750	.093	432AB	4.5000	7.0000	1.1875	.125	64700B
1.8125	3.7500	.8750	.093	432B	4.5000	8.3750	2.1250	.125	932B
2.0000	3.0625	.3750	.062	LL205410B	4.5266	8.3750	2.1250	.125	HH224310B
2.0000	3.1875	.5625	.062	L305610B	4.5310	7.5000	1.3750	.125	71750B
2.0000	3.3464	.5313	.062	18720B	4.6250	7.1250	1.0000	.125	68712B
2.0000	3.3750	.5000	.060	18337B	4.7500	6.3125	.6563	.062	L624510B
2.0000	4.0000	1.0000	.125	49520B	5.0000	7.1875	1.3125	.125	48220B
2.0000	4.0000	1.0625	.125	522B	5.0625	7.5000	1.0000	.125	48750B
2.0000	4.2900	1.0625	.125	59429B	5.1250	8.1250	1.3750	.125	792B
2.0000	4.5000	1.3750	.125	65320B	5.2500	6.9688	.8125	.062	L327210B
2.0312	3.5433	.6250	.031	362B	5.2500	7.5000	1.5000	.125	67322B
2.0625	3.6250	.7813	.031	28521B	5.2500	8.0000	1.5000	.125	67320B
2.0625	3.6718	.9375	.125	3720B	5.2500	9.2500	1.9375	.125	95925B
2.0625	4.3750	.8125	.125	55437B	5.3750	7.5000	1.3125	.125	48320B
2.1250	3.6718	.8750	.031	33820B	5.5000	8.5000	1.3750	.125	74850B

Continued next page

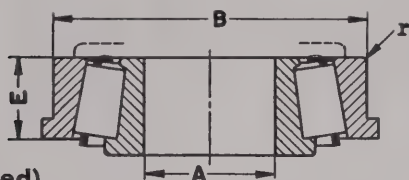
NEED HELP ON BEARINGS—CALL US

TIMKEN® BEARINGS

REGISTERED TRADE MARK
THE TIMKEN ROLLER BEARING COMPANY

single-row flanged cup type TSF and TSSF

ARRANGED BY BORE DIAMETERS



(Continued)

bore A	outside diam. B	cup length E	cup radius r	part number
5.5000	9.0000	1.7500	.125	892B
5.6250	7.8750	1.3437	.125	48620B
5.7500	7.6250	.9063	.062	36620B
5.8750	9.5000	1.7500	.125	82950B
5.8750	9.5000	1.7500	.125	HM231115B
6.0000	10.0000	1.8750	.125	99100B
6.5156	8.8750	1.3125	.125	46720B
6.7500	10.2500	2.0625	.125	HM535310B
7.0000	9.7500	1.5000	.125	67720B
7.0000	11.3750	1.8750	.125	94113B
7.0887	11.3750	1.8750	.125	HM237510B
7.3750	10.6250	1.6875	.125	M238810B
7.5000	10.5000	1.5000	.125	67820B
7.5000	13.2500	2.5000	.250	470132B
7.6250	11.1250	1.4375	.125	87111B
8.0000	14.3720	2.5000	.125	421437B
8.1250	11.1250	1.4375	.125	67920B
8.2500	12.5000	1.8125	.125	93125B
8.5000	11.2500	1.3750	.125	LM742710B
8.6875	12.3750	1.9375	.125	M244210B
9.2500	14.0000	1.8750	.125	96140B
9.5000	12.8750	1.4375	.125	8520B
9.5000	14.5000	2.1250	.125	125145B
9.8130	15.0000	2.2500	.187	126150B
10.0000	14.1250	2.1250	.125	M249710B
10.2500	15.7500	1.8125	.250	221575B
10.8750	15.8750	1.8125	.250	275158B
11.0312	16.0000	2.1250	.125	128160B
11.2500	14.9960	1.9375	.125	LM654610B
12.0000	17.2460	2.1250	.125	329172B
12.5000	17.5000	1.5625	.062	291750B
13.0000	19.0000	2.3750	.125	526190B
13.6250	19.0000	1.7500	.265	203190B
14.0000	19.7500	2.7500	.125	333197B
14.7500	20.0000	2.0000	.125	232000B
15.0000	20.5625	2.4375	.125	LM565910B
16.0000	20.0000	1.8750	.125	L467510B
16.0000	21.6250	2.4375	.125	LM567910B
17.0000	21.0000	1.3750	.125	80325B
18.0000	23.7500	2.3750	.125	LM770910B
19.6250	24.9950	2.5000	.125	243250B
23.5000	27.0000	1.0000	.125	680270B
23.5000	27.0000	1.2500	.125	LL379010B
24.5000	28.5625	1.3125	.125	LL780210B
25.5000	29.0000	1.0000	.125	LL380810B
25.5000	29.0000	1.2500	.125	LL480710B
29.0000	32.5000	1.0000	.125	LL582910B
34.0000	38.5000	1.3125	.125	LL586018B

AVAILABLE IN
PRECISION
TOLERANCES

Class No. 4
Class No. 2
Class No. 3
Class No. 0

See page 122

two-row heavy section double cup, slotted cones – type TNASWH

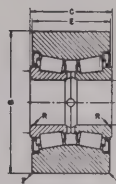


fig. 1

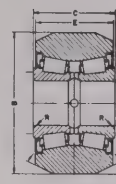
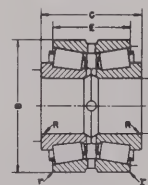


fig. 2

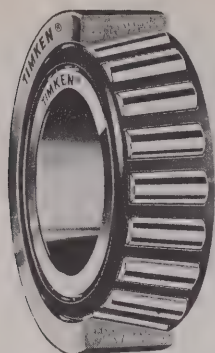
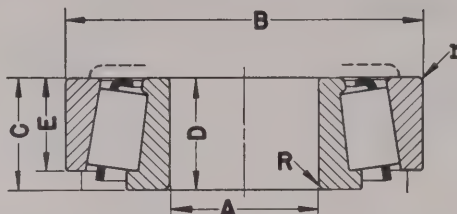
bore A	outside diam. B	width		cone radius R	cup radius r	fig. no.	part number	
		through cones C	over cup E				cone	cup
.5000	1.7500	1.1251	1.0625	.031	.093	1	A4051	K56570
.5000	1.7500	1.1251	1.0625	.031		2	A4051	K24299
.6250	2.0000	1.4376	1.3750	.031	.125	1	NA03063SW	K90651
.6250	2.0000	1.4376	1.3750	.031		2	NA03063SW	K24429
.6250	2.1250	1.4376	1.3750	.031	.125	1	NA03063SW	K35667
.7500	2.5000	1.3751	1.3125	.031	.125	1	NA05076SW	K39214
.8125	3.0000	1.9064	1.8438	.062	.125	1	NA12581SW	K38958
.8125	3.0000	1.9064	1.8438	.062		2	NA12581SW	T70335
1.1813	3.5000	2.0001	1.9375	.031	.125	1	NA15117SW	K33867
1.1813	3.5000	2.0001	1.9375	.031		2	NA15117SW	T70125
1.5000	4.0000	2.3124	2.2500	.031		2	NA24776SW	T70124
1.5000	4.2500	2.3124	2.2500	.031	.125	1	NA24776SW	K78175
1.7500	4.7500	2.6249	2.5625	.031		2	NA4395W	T68976
1.7500	5.0000	2.6249	2.5625	.031	.125	1	NA4395W	K35666

two-row double cup, slotted cones, extended cone rib, ground – type TNASWE

ARRANGED BY BORE DIAMETERS



bore A	outside diam. B	width		cone radius R	cup radius r	part number	
		through cones C	over cup E			cone	cup
.7500	1.8504	1.3750	.9926	.031	.031	NA05076SW	05185D
1.1810	2.5000	1.9981	1.4375	.140	.031	NA15118SW	15251D
1.1813	2.5000	2.0001	1.4375	.031	.031	NA15117SW	15251D
1.5000	3.0000	2.3125	1.5625	.031	.031	NA24776SW	24720D
1.7500	3.7500	2.8126	2.0000	.140	.031	NA4355W	432D
2.0000	4.2500	2.9376	2.1250	.140	.031	NA4565W	452D
2.7559	4.7244	2.9376	2.1250	.140	.031	NA4835W	472D
3.2500	5.5115	3.6250	2.6250	.140	.031	NA5805W	572D
3.5000	6.0000	3.6250	2.5000	.140	.031	NA5965W	592D
4.2500	6.5000	3.5000	2.5000	.140	.031	NA56425SW	56650D
5.0000	7.1875	3.6874	2.8750	.140	.031	NA48290SW	48220D
5.6250	7.8750	3.6876	2.8750	.140	.031	NA48685SW	48620D
6.0000	8.3125	3.6250	2.7500	.140	.031	NA48990SW	48920D
6.5000	8.8750	3.7500	2.7500	.140	.031	NA46790SW	46720D
7.0000	11.1250	4.2500	3.1250	.140	.062	NA87700SW	87112D
7.5000	10.5000	4.3125	3.1250	.140	.031	NA67885SW	67820D
8.0000	10.8750	3.7500	2.8750	.140	.031	LM241149NW	LM241110D
9.2500	12.2500	4.0000	2.8750	.140	.031	LM446349NW	LM446310D
9.2500	12.8125	4.2500	3.0000	.140	.062	LM246349NW	LM246310D
9.2500	12.8750	4.6250	3.2500	.250	.062	NA8575SW	8520D
9.6250	13.7460	5.2500	4.0000	.250	.062	NA127096SW	127136D
9.9990	13.6875	4.0000	2.7500	.140	.062	LM249747NW	LM249710D
10.2500	15.7500	6.1250	4.2500	.250	.062	NA221026SW	221576D
10.5000	13.8750	4.2500	3.2500	.250	.062	LM251649NW	LM251610D
12.0000	15.5000	4.2500	3.2500	.250	.062	L357049NW	L357010D

**TIMKEN® BEARINGS**REGISTERED TRADE MARK
THE TIMKEN ROLLER BEARING COMPANY**single-row straight bore — type TS****ARRANGED BY BORE DIAMETERS****AVAILABLE IN
PRECISION
TOLERANCES**Class No. 4
Class No. 2
Class No. 3
Class No. 0

See page 122

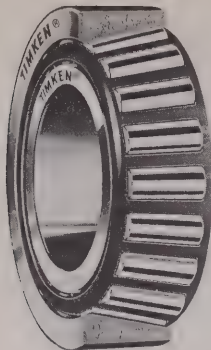
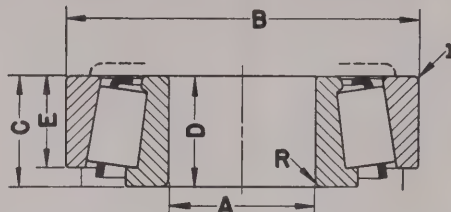
bore A	outside diam. B	width C	cone length D	cup length E	cone radius R	cup radius r	part number	
							cone	cup
.3125	1.2595	.3040	.4246	.3125	.020Ch	.046	A2031	A2126
.3750	1.2595	.3940	.4246	.3125	.046	.046	A2037	A2126
.4375	1.3775	.4330	.4326	.3437	.046	.046	A4044	A4138
.4720	1.2595	.3940	.4246	.3125	.031	.046	A2047	A2126
.5000	1.3775	.4330	.4326	.3437	.046	.046	A4050	A4138
.5000	1.5000	.5313	.5540	.4375	.062	.031	00050	00150
.5900	1.3775	.4330	.4326	.3437	.031	.046	A4059	A4138
.6250	1.3775	.4330	.4330	.3430	.046	.046	L21549	L21511
.6250	1.5745	.4730	.4391	.3750	.046	.046	A6062	A6157
.6250	1.6250	.4687	.4391	.3437	.046	.046	A6062	A6162
.6250	1.6250	.5625	.5780	.4375	.046	.078	03062	03162
.6250	1.6875	.6563	.6563	.5313	.062	.062	17580	17520
.6250	1.8504	.5662	.5662	.4375	.062	.046	05062	05185
.6250	1.9380	.7813	.8480	.5625	.031	.046	09062	09195
.6250	1.9380	.9063	.8480	.6875	.031	.062	09062	09196
.6250	1.9380	.9063	.8480	.6875	.031	.140	09062	09194
.6690	1.5745	.4730	.4391	.3750	.031	.046	A6067	A6157
.6690	1.6250	.4687	.4391	.3437	.031	.046	A6067	A6162
.6690	1.8504	.5662	.5662	.4375	.062	.046	05066	05185
.6872	1.4380	.4375	.4375	.3125	.062	.062	A5069	A5144
.6875	1.7500	.5000	.4688	.3750	.062	.062	4C	6
.6950	1.9380	.7813	.8480	.5625	.093Ch	.046	09070	09195
.6950	1.9380	.9063	.8480	.6875	.093Ch	.062	09070	09196
.6950	1.9380	.9063	.8480	.6875	.093Ch	.140	09070	09194
.7482	2.2400	.7625	.7810	.6250	.062	.046	1774	1729
.7482	2.2400	.7625	.7810	.6250	.062	.062	1774	1729X
.7500	1.5745	.4730	.4391	.3750	.040	.046	A6075	A6157
.7500	1.6250	.4687	.4391	.3437	.040	.046	A6075	A6162
.7500	1.7500	.5000	.4688	.3750	.062	.062	4A	6
.7500	1.7810	.6100	.6550	.4750	.046	.046	LM11949	LM11910
.7500	1.8504	.5662	.5662	.4375	.046	.046	05075	05185
.7500	1.9380	.7100	.7500	.5625	.046	.046	09067	09195
.7500	1.9380	.7813	.8480	.5625	.046	.046	09078	09195
.7500	1.9380	.7813	.8480	.5625	.062Ch	.046	09074	09195
.7500	1.9380	.8350	.7500	.6875	.046	.062	09067	09196
.7500	1.9380	.8350	.7500	.6875	.046	.140	09067	09194
.7500	1.9380	.9063	.8480	.6875	.046	.062	09078	09196
.7500	1.9380	.9063	.8480	.6875	.046	.140	09078	09194
.7500	1.9380	.9063	.8480	.6875	.062Ch	.062	09074	09196
.7500	1.9380	.9063	.8480	.6875	.062Ch	.140	09074	09194
.7500	2.2400	.7625	.7810	.6250	.062	.046	1775	1729
.7500	2.2400	.7625	.7810	.6250	.062	.062	1775	1729X
.7870	1.8504	.5662	.5662	.4375	.062	.046	05079	05185
.7874	1.9687	.5313	.5614	.3750	.062	.040	07079	07196
.7874	2.0470	.5910	.5614	.5000	.062	.046	07079	07204
.8125	1.9380	.7813	.7813	.6250	.062	.062	12580	12520
.8125	2.4375	1.1250	1.1975	.9375	.093	.125	3660	3620
.8125	2.5625	1.1250	1.1975	.8750	.093	.125	3660	3623
.8437	1.9687	.6900	.7200	.5500	.046	.046	M12649	M12610
.8750	1.6563	.4400	.4400	.3400	.046	.046	LL52549	LL52510
.8750	1.9687	.5313	.5614	.3750	.046	.040	07087	07196
.8750	2.0470	.5910	.5614	.5000	.046	.046	07087	07204
.8750	2.0625	.7625	.7940	.5625	.062	.062	1380	1328
.8750	2.1250	.7625	.7940	.5625	.062	.062	1380	1329
.8750	2.2400	.7625	.7810	.6250	.046	.046	1755	1729
.8750	2.2400	.7625	.7810	.6250	.046	.062	1755	1729X
.8750	2.2500	.8750	.8750	.6875	.031	.062	1280	1220
.8750	2.3125	.7500	.7620	.5937	.031	.046	1975	1932
.8750	2.3750	.7813	.7620	.6250	.031	.046	1975	1931
.8750	2.6150	.9375	1.0013	.7500	.062	.046	2684	2631
.9375	1.9687	.5313	.5614	.3750	.062	.040	07093	07196
.9375	2.0470	.5910	.5614	.5000	.062	.046	07093	07204
.9375	2.2400	.7625	.7810	.6250	.031	.046	1779	1729
.9375	2.2400	.7625	.7810	.6250	.031	.062	1779	1729X
.9375	2.4375	1.1250	1.1975	.9375	.093	.125	3659	3620
.9375	2.5625	1.1250	1.1975	.8750	.093	.125	3659	3623
.9375	2.6150	.9375	1.0013	.7500	.031	.046	2685	2631
.9375	2.7450	.7500	.7450	.7500	.093	.062	26093	26274

bore A	outside diam. B	width C	cone length D	cup length E	cone radius R	cup radius r	part number	
							cone	cup
.9375	2.8345	.7480	.7450	.6250	.093	.062	26093	26283
.9375	3.0000	.7480	.7450	.6250	.093	.062	26093	26300
.9835	1.9687	.5313	.5614	.3750	.062	.040	07098	07196
.9835	2.0470	.5910	.5614	.5000	.062	.046	07098	07204
.9835	2.4410	.6300	.6522	.5625	.062	.062	17098	17244
.9842	1.9687	.5313	.5614	.3750	.062	.040	07097	07196
.9842	2.0470	.5910	.5614	.5000	.062	.046	07097	07204
1.0000	1.9687	.5313	.5614	.3750	.040	.040	07100	07196
1.0000	2.0470	.5910	.5614	.5000	.040	.046	07100	07204
1.0000	2.2400	.7625	.7810	.6250	.031	.046	1780	1729
1.0000	2.2400	.7625	.7810	.6250	.031	.062	1780	1729X
1.0000	2.2500	.6875	.6875	.5313	.046	.062	15578	15520
1.0000	2.3125	.7500	.7620	.5937	.046	.046	1986	1932
1.0000	2.3750	.7812	.6875	.6250	.046	.062	15578	15523
1.0000	2.3750	.7813	.7620	.6250	.046	.046	1986	1931
1.0000	2.4375	.7500	.8125	.5625	.031	.078	15101	15243
1.0000	2.4375	.7500	.8125	.5625	.062	.078	15102	15243
1.0000	2.4375	.7500	.8125	.5625	.140	.078	15100	15243
1.0000	2.4410	.7500	.8125	.5625	.031	.046	15101	15245
1.0000	2.4410	.7500	.8125	.5625	.062	.046	15102	15245
1.0000	2.4410	.7500	.8125	.5625	.140	.046	15100	15245
1.0000	2.4410	.8125	.8125	.6250	.031	.046	15101	15244
1.0000	2.4410	.8125	.8125	.6250	.062	.046	15102	15244
1.0000	2.4410	.8125	.8125	.6250	.140	.046	15100	15244
1.0000	2.5000	.8125	.8125	.6250	.031	.046	15101	15250
1.0000	2.5000	.8125	.8125	.6250	.031	.062	15101	15250X
1.0000	2.5000	.8125	.8125	.6250	.062	.046	15102	15250
1.0000	2.5000	.8125	.8125	.6250	.062	.062	15102	15250X
1.0000	2.5000	.8125	.8125	.6250	.140	.046	15100	15250
1.0000	2.5000	.8125	.8125	.6250	.140	.062	15100	15250X
1.0000	2.6150	.9375	1.0013	.7500	.046	.046	2687	2631
1.0000	2.6875	.8750	.8750	.6875	.031	.031	02473	02421
1.0000	2.6875	.8750	.9375	.6875	.031	.062	2473	2420
1.0000	2.6875	.8750	.8750	.6875	.031	.062	02473	02420
1.0000	2.7450	.7500	.7450	.7500	.062	.062	26100	26274
1.0000	2.8345	.7480	.7450	.6250	.062	.062	26100	26283
1.0000	2.8360	1.1875	1.1810	.9375	.031	.109	3189	3126
1.0000	2.8593	1.1875	1.1810	.9375	.031	.031	3189	3130
1.0000	2.8593	1.1875	1.1810	.9375	.031	.125	3189	3120
1.0000	3.0000	.7480	.7450	.6250	.062	.062	26100	26300
1.0000	3.0000	1.1875	1.1810	.9375	.031	.031	3189	3129
1.0000	3.1496	.8268	.8820	.7018	.031	.046	338	332
1.0000	3.1496	.9518	.8820	.8268	.031	.093	338	332A
1.0298	2.4375	.7500	.8125	.5625	.031	.078	15103	15243
1.0298	2.4410	.7500	.8125	.5625	.031	.046	15103	15245
1.0298	2.4410	.8125	.8125	.6250	.031	.046	15103	15244
1.0298	2.5000	.8125	.8125	.6250	.031	.046	15103	15250
1.0298	2.5000	.8125	.8125	.6250	.031	.062	15103	15250X
1.0300	2.6150	.9375	1.0013	.7500	.062	.046	2682	2631
1.0620	2.3125	.7500	.7620	.5937	.031	.046	1987	1932
1.0620	2.3750	.7813	.7620	.6250	.031	.046	1987	1931
1.0625	2.2500	.6875	.6875	.5313	.140	.062	15580	15520
1.0625	2.3125	.7500	.7620	.5937	.125	.046	1997X	1932
1.0625	2.3750	.7812	.6875	.6250	.140	.062	15580	15523
1.0625	2.3750	.7813	.7620	.6250	.125	.046	1997X	1931
1.0625	2.4375	.7500	.8125	.5625	.031	.078	15106	15243
1.0625	2.4410	.7500	.8125	.5625	.031	.046	15106	15245
1.0625	2.4410	.8125	.8125	.6250	.031	.046	15106	15244
1.0625	2.5000	.8125	.8125	.6250	.031	.046	15106	15250
1.0625	2.5000	.8125	.8125	.6250	.031	.062	15106	15250X
1.0625	2.6150	.9375	1.0013	.7500	.062	.046	2688	2631
1.1250	2.2500	.6875	.6875	.5313	.140	.062	15590	15520
1.1250	2.3125	.7500	.7620	.5937	.031	.046	1985	1932
1.1250	2.3125	.7500	.7620	.5937	.140	.046	1988	1932
1.1250	2.3750	.7812	.6875	.6250	.140	.062	15590	15523
1.1250	2.3750	.7813	.7620	.6250	.031	.046	1985	1931
1.1250	2.3750	.7813	.7620	.6250	.140	.046	1988	1931
1.1250	2.4375	.7500	.8125	.5625	.031	.078	15113	15243

TIMKEN BEARINGS—SINGLE-ROW STRAIGHT BORE—TYPE TS (Cont'd)

Bore A	Outside diam. B	Width C	Cone length D	Cup length E	Cone radius R	Cup radius r	Part number	
							Cone	Cup
1.1250	2.4375	.7500	.8125	.5625	.140	.078	15112	15243
1.1250	2.4410	.7500	.8125	.5625	.031	.046	15113	15245
1.1250	2.4410	.7500	.8125	.5625	.140	.046	15112	15245
1.1250	2.4410	.8125	.8125	.6250	.031	.046	15113	15244
1.1250	2.4410	.8125	.8125	.6250	.140	.046	15112	15244
1.1250	2.5000	.8125	.8125	.6250	.031	.046	15113	15250
1.1250	2.5000	.8125	.8125	.6250	.031	.062	15113	15250X
1.1250	2.5000	.8125	.8125	.6250	.140	.046	15112	15250
1.1250	2.5000	.8125	.8125	.6250	.140	.062	15112	15250X
1.1250	2.6150	.7500	.7470	.6250	.062	.062	24112	24261
1.1250	2.6150	.9375	1.0013	.7500	.046	.046	2689	2631
1.1250	2.6875	.8750	.8750	.6875	.031	.031	02474	02421
1.1250	2.6875	.8750	.8750	.6875	.031	.062	02474	02420
1.1250	2.6875	.8750	.9375	.6875	.031	.062	2474	2420
1.1250	2.7450	.7500	.7450	.7500	.062	.062	26112	26274
1.1250	2.7500	.9375	.9983	.7500	.093	.046	2578	2523
1.1250	2.7500	.9375	.9983	.7500	.093	.062	2578	2523X
1.1250	2.8345	.7480	.7450	.6250	.062	.062	26112	26283
1.1250	2.8355	.9375	.9983	.7500	.093	.031	2578	2525
1.1250	2.8360	1.1875	1.1810	.9375	.046	.109	3198	3126
1.1250	2.8360	1.1875	1.1810	.9375	.140	.109	3192	3126
1.1250	2.8593	1.1875	1.1810	.9375	.046	.031	3198	3130
1.1250	2.8593	1.1875	1.1810	.9375	.046	.125	3198	3120
1.1250	2.8593	1.1875	1.1810	.9375	.140	.031	3192	3130
1.1250	2.8593	1.1875	1.1810	.9375	.140	.125	3192	3120
1.1250	2.8750	.8750	.8750	.6875	.031	.031	02872	02830
1.1250	2.8750	.8750	.8750	.6875	.031	.125	02872	02820
1.1250	3.0000	.7480	.7450	.6250	.062	.062	26112	26300
1.1250	3.0000	1.1875	1.1810	.9375	.046	.031	3198	3129
1.1250	3.0000	1.1875	1.1810	.9375	.140	.031	3192	3129
1.1250	3.1875	.8750	.8750	.6875	.031	.031	02872	02831
1.1562	2.6150	.9375	1.0013	.7500	.031	.046	2691	2631
1.1562	2.6150	.9375	1.0013	.7500	.140	.046	2690	2631
1.1805	2.4375	.7500	.8125	.5625	.046	.078	15117	15243
1.1805	2.4410	.6300	.6522	.5625	.062	.062	17118	17244
1.1805	2.4410	.7500	.8125	.5625	.046	.046	15117	15245
1.1805	2.4410	.8125	.8125	.6250	.046	.046	15117	15244
1.1805	2.5000	.8125	.8125	.6250	.046	.046	15117	15250
1.1805	2.5000	.8125	.8125	.6250	.046	.062	15117	15250X
1.1805	2.7450	.7500	.7450	.7500	.062	.062	26118	26274
1.1805	2.8345	.7480	.7450	.6250	.062	.062	26118	26283
1.1805	3.0000	.7480	.7450	.6250	.062	.062	26118	26300
1.1810	2.7148	.7813	.7710	.6250	.140	.125	14117A	14274A
1.1810	2.7170	.7813	.7710	.6250	.140	.046	14117A	14276
1.1810	2.7170	.7813	.7710	.6250	.140	.125	14117A	14274
1.1810	2.7170	.8813	.7710	.7250	.140	.093	14117A	14277
1.1810	2.7500	.9375	.9983	.7500	.140	.046	2586	2523
1.1810	2.7500	.9375	.9983	.7500	.140	.062	2586	2523X
1.1810	2.8355	.9375	.9983	.7500	.140	.031	2586	2525
1.1810	2.8380	.8813	.7710	.7250	.140	.093	14117A	14283
1.1811	2.8360	1.1875	1.1810	.9375	.140	.109	3190	3126
1.1811	2.8593	1.1875	1.1810	.9375	.140	.031	3190	3130
1.1811	2.8593	1.1875	1.1810	.9375	.140	.125	3190	3120
1.1811	3.0000	1.1875	1.1810	.9375	.140	.031	3190	3129
1.1811	3.4843	1.0625	1.1450	.8750	.031	.062	416	414
1.1811	3.4843	1.0625	1.1450	.8750	.031	.125	416	414A
1.1811	3.5000	1.0625	1.1450	.8750	.031	.031	416	414X
1.1855	2.4375	.7500	.8125	.5625	.031	.078	15116	15243
1.1855	2.4410	.7500	.8125	.5625	.031	.046	15116	15245
1.1855	2.4410	.8125	.8125	.6250	.031	.046	15116	15244
1.1855	2.5000	.8125	.8125	.6250	.031	.046	15116	15250
1.1855	2.5000	.8125	.8125	.6250	.031	.062	15116	15250X
1.1875	2.3125	.5781	.5937	.4219	.140	.040	08118	08231
1.1875	2.4410	.6300	.6522	.5625	.062	.062	17119	17244
1.1875	2.6150	.7500	.7470	.6250	.062	.062	24118	24261
1.1875	2.7500	.9375	.9983	.7500	.031	.046	2559	2523
1.1875	2.7500	.9375	.9983	.7500	.031	.062	2559	2523X
1.1875	2.7500	.9375	.9983	.7500	.093	.046	2558	2523
1.1875	2.7500	.9375	.9983	.7500	.093	.062	2558	2523X
1.1875	2.8355	.9375	.9983	.7500	.031	.031	2559	2525
1.1875	2.8355	.9375	.9983	.7500	.093	.031	2558	2525
1.1875	2.8360	1.1875	1.1810	.9375	.031	.109	3187	3126
1.1875	2.8360	1.1875	1.1810	.9375	.140	.109	3191	3126
1.1875	2.8593	1.1875	1.1810	.9375	.031	.031	3187	3130
1.1875	2.8593	1.1875	1.1810	.9375	.031	.125	3187	3120
1.1875	2.8593	1.1875	1.1810	.9375	.140	.031	3191	3130
1.1875	2.8593	1.1875	1.1810	.9375	.140	.125	3191	3120
1.1875	2.8593	1.1875	1.1810	.9375	.140	.062	28118	28300
1.1875	3.0000	.8125	.8244	.6105	.062	.046	3187	3129
1.1875	3.0000	1.1875	1.1810	.9375	.031	.031	3187	3129
1.1875	3.0000	1.1875	1.1810	.9375	.140	.031	3191	3129
1.1875	3.1250	1.1563	1.1721	.9375	.031	.125	3474	3420
1.1875	3.1495	.8270	.8244	.6250	.062	.062	28118	28315
1.1875	3.1496	.8268	.8820	.7018	.031	.046	334	332
1.1875	3.1496	.9518	.8820	.8268	.031	.093	334	332A

bore A	outside diam. B	width C	cone length D	cup length E	cone radius R	cup radius r	part number	
							cone	cup
1.1875	3.1510	.8438	.8244	.6250	.062	.062	28118	28317
1.1875	3.1562	1.1563	1.1721	.9375	.031	.125	3474	3422
1.1895	2.4375	.7500	.8125	.5625	.031	.078	15120	15243
1.1895	2.4375	.7500	.8125	.5625	.060	.078	15119	15243
1.1895	2.4375	.7500	.8125	.5625	.140	.078	15118	15243
1.1895	2.4410	.7500	.8125	.5625	.031	.046	15120	15245
1.1895	2.4410	.7500	.8125	.5625	.060	.046	15119	15245
1.1895	2.4410	.7500	.8125	.5625	.140	.046	15118	15245
1.1895	2.4410	.8125	.8125	.6250	.031	.046	15120	15244
1.1895	2.4410	.8125	.8125	.6250	.060	.046	15119	15244
1.1895	2.4410	.8125	.8125	.6250	.140	.046	15118	15244
1.1895	2.5000	.8125	.8125	.6250	.031	.046	15120	15250
1.1895	2.5000	.8125	.8125	.6250	.031	.062	15120	15250X
1.1895	2.5000	.8125	.8125	.6250	.060	.046	15119	15250
1.1895	2.5000	.8125	.8125	.6250	.060	.062	15119	15250X
1.1895	2.5000	.8125	.8125	.6250	.140	.046	15118	15250
1.1895	2.5000	.8125	.8125	.6250	.140	.062	15118	15250X
1.1900	2.7148	.7813	.7710	.6250	.031	.125	14116	14274A
1.1900	2.7170	.7813	.7710	.6250	.031	.046	14116	14276
1.1900	2.7170	.7813	.7710	.6250	.031	.125	14116	14274
1.1900	2.7170	.8813	.7710	.7250	.031	.093	14116	14277
1.1900	2.8380	.8813	.7710	.7250	.031	.093	14116	14283
1.2450	2.6250	.8125	.8125	.6250	.062	.062	1674	1620
1.2500	2.3125	.5781	.5937	.4219	.040	.040	08125	08231
1.2500	2.3280	.6250	.6600	.4650	Spec.	.046	LM67048	LM67010
1.2500	2.4375	.7150	.7500	.5625	Spec.	.078	15123	15243
1.2500	2.4375	.7500	.8125	.5625	.031	.078	15126	15243
1.2500	2.4375	.7500	.8125	.5625	.140	.078	15125	15243
1.2500	2.4410	.7150	.7500	.5625	Spec.	.046	15123	15245
1.2500	2.4410	.7500	.8125	.5625	.031	.046	15126	15245
1.2500	2.4410	.7500	.8125	.5625	.140	.046	15125	15245
1.2500	2.4410	.7775	.7500	.6250	Spec.	.046	15123	15244
1.2500	2.4410	.8125	.8125	.6250	.031	.046	15126	15244
1.2500	2.4410	.8125	.8125	.6250	.140	.046	15125	15244
1.2500	2.5000	.7775	.7500	.6250	Spec.	.046	15123	15250
1.2500	2.5000	.7775	.7500	.6250	Spec.	.062	15123	15250X
1.2500	2.5000	.8125	.8125	.6250	.031	.046	15126	15250
1.2500	2.5000	.8125	.8125	.6250	.031	.062	15126	15250X
1.2500	2.5000	.8125	.8125	.6250	.140	.046	15125	15250
1.2500	2.5000	.8125	.8125	.6250	.140	.062	15125	15250X
1.2500	2.6875	.8750	.8750	.6875	.031	.031	02476	02421
1.2500	2.6875	.8750	.8750	.6875	.031	.062	02476	02420
1.2500	2.6875	.8750	.8750	.6875	.062	.031	16579	16522
1.2500	2.6875	.8750	.8750	.6875	.140	.031	02475	02421
1.2500	2.6875	.8750	.8750	.6875	.140	.062	02475	02420
1.2500	2.6875	.8750	.9375	.6875	.140	.062	2475	2420
1.2500	2.6875	1.0625	1.0625	.8750	.062	.062	23491	23420
1.2500	2.7148	.7813	.7710	.6250	.031	.125	14124	14274A
1.2500	2.7148	.7813	.7710	.6250	.140	.125	14125A	14274A
1.2500	2.7170	.7813	.7710	.6250	.031	.046	14124	14276
1.2500	2.7170	.7813	.7710	.6250	.031	.125	14124	14274
1.2500	2.7170	.7813	.7710	.6250	.140	.046	14125A	14276
1.2500	2.7170	.7813	.7710	.6250	.140	.125	14125A	14274
1.2500	2.7170	.8813	.7710	.7250	.031	.093	14124	14277
1.2500	2.7170	.8813	.7710	.7250	.140	.093	14125A	14277
1.2500	2.7500	.9375	.9983	.7500	.031	.046	2580	2580
1.2500	2.7500	.9375	.9983	.7500	.031	.062	2580	2523X
1.2500	2.7500	.9375	.9983	.7500	.140	.046	2582	2523
1.2500	2.7500	.9375	.9983	.7500	.140	.062	2582	2523X
1.2500	2.8355	.9375	.9983	.7500	.031	.031	2580	2525
1.2500	2.8355	.9375	.9983	.7500	.140	.031	2582	2525
1.2500	2.8360	1.1875	1.1810	.9375	.031	.109	3188	3126
1.2500	2.8360	1.1875	1.1810	.9375	.093	.109	3199	3126
1.2500	2.8360	1.1875	1.1810	.9375	.140	.109	3193	3126
1.2500	2.8380	.8813	.7710	.7250	.031	.093	14124	14283
1.2500	2.8380	.8813	.7710	.7250	.140	.093	14125A	14283
1.2500	2.8593	1.1875	1.1810	.9375	.031	.031	3188	3130
1.2500	2.8593	1.1875	1.1810	.9375	.031	.125	3188	3120
1.2500	2.8593	1.1875	1.1810	.9375	.093	.031	3199	3130
1.2500	2.8593	1.1875	1.1810	.9375	.093	.125	3199	3120
1.2500	2.8593	1.1875	1.1810	.9375	.140	.031	3193	3130
1.2500	2.8593	1.1875	1.1810	.9375	.140	.125	3193	3120
1.2500	2.8750	.8750	.8750	.6875	.031	.031	02876	02830
1.2500	2.8750	.8750	.9375	.6875	.031	.031	2879	2821
1.2500	2.8750	.8750	.8750	.6875	.031	.125	02876	02820
1.2500	2.8750	.8750	.9375	.6875	.031	.125	2879	2820
1.2500	2.8750	.8750	.8750	.6875	.140	.031	02875	02830
1.2500	2.8750	.8750	.9375	.6875	.140	.031	2875	2821
1.2500	2.8750	.8750	.8750	.6875	.140	.125	02875	02820
1.2500	2.8750	.8750	.9375	.6875	.140	.125	2875	2820
1.2500	2.8750	1.0625	1.0620	.8750	.140	.031	23685	23621
1.2500	2.8750	1.0625	1.0620	.8750	.140	.062	23685	23620
1.2500	2.8750	1.1563	1.0938	.9063	.046	.031	HM88542	HM88511
1.2500	2.8750	1.1563	1.0938	.9063	.046	.125	HM88542	HM88511

**TIMKEN® BEARINGS**REGISTERED TRADE MARK
THE TIMKEN ROLLER BEARING COMPANY**single-row straight bore — type TS****ARRANGED BY BORE DIAMETERS****AVAILABLE IN
PRECISION
TOLERANCES**Class No. 4
Class No. 2
Class No. 3
Class No. 0

See page 122

(Continued)

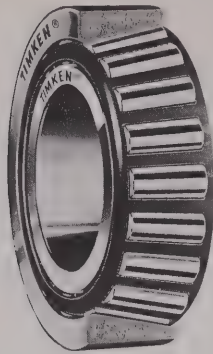
bore A	outside diam. B	width C	cone length D	cup length E	cone radius R	cup radius r	part number	
							cone	cup
1.2500	3.0000	1.1563	1.1250	.9063	.031	.031	HM89440	HM89411
1.2500	3.0000	1.1563	1.1250	.9063	.031	.125	HM89440	HM89410
1.2500	3.0000	1.1875	1.1810	.9375	.031	.031	3188	3129
1.2500	3.0000	1.1875	1.1810	.9375	.093	.031	3199	3129
1.2500	3.0000	1.1875	1.1810	.9375	.140	.031	3193	3129
1.2500	3.0625	1.0625	1.0620	.8750	.140	.031	23685	23623
1.2500	3.1250	1.1563	1.1721	.9375	.046	.125	3476	3420
1.2500	3.1496	.8268	.8820	.7018	.031	.046	346	.332
1.2500	3.1496	.9518	.8820	.8268	.031	.093	346	332A
1.2500	3.1562	1.1563	1.1721	.9375	.046	.125	3476	3422
1.2500	3.1875	.8750	.8750	.6875	.031	.031	02876	02831
1.2500	3.1875	.8750	.8750	.6875	.140	.031	02875	02831
1.2500	3.7500	1.0938	1.1772	.8750	.031	.093	443	432
1.2500	3.7500	1.2501	1.1772	1.0313	.031	.125	443	432X
1.2600	2.7450	.7500	.7450	.7500	.062	.062	26126	26274
1.2600	2.8345	.7480	.7450	.6250	.062	.062	26126	26283
1.2600	3.0000	.7480	.7450	.6250	.062	.062	26126	26300
1.3125	2.6250	.8125	.8125	.6250	.140	.062	1680	1620
1.3125	2.6250	.8125	.8125	.6563	.140	.093	M38545	M38510
1.3125	2.6875	.8125	.8125	.6563	.140	.093	M38545	M38514
1.3125	2.6875	.8750	.8750	.6875	.031	.062	M88048	M88010
1.3125	2.6875	.8750	.8750	.6875	.062	.031	16582	16522
1.3125	2.7148	.7813	.7710	.6250	.031	.125	14131	14274A
1.3125	2.7148	.7813	.7710	.6250	.140	.125	14130	14274A
1.3125	2.7170	.7813	.7710	.6250	.031	.046	14131	14276
1.3125	2.7170	.7813	.7710	.6250	.031	.125	14131	14274
1.3125	2.7170	.7813	.7710	.6250	.140	.046	14130	14276
1.3125	2.7170	.7813	.7710	.6250	.140	.125	14130	14274
1.3125	2.7170	.8813	.7710	.7250	.031	.093	14131	14277
1.3125	2.7170	.8813	.7710	.7250	.140	.093	14130	14277
1.3125	2.7450	.7500	.7450	.7500	.062	.062	26132	26274
1.3125	2.7450	.7500	.7450	.7500	.140	.062	26131	26274
1.3125	2.7500	.9375	.9983	.7500	.031	.046	2581	2523
1.3125	2.7500	.9375	.9983	.7500	.031	.062	2581	2523X
1.3125	2.7500	.9375	.9983	.7500	.140	.046	2585	2523
1.3125	2.7500	.9375	.9983	.7500	.140	.062	2585	2523X
1.3125	2.8345	.7480	.7450	.6250	.062	.062	26132	26283
1.3125	2.8345	.7480	.7450	.6250	.140	.062	26131	26283
1.3125	2.8345	.7480	.8125	.5605	.140	.062	16131	16282
1.3125	2.8355	.9375	.9983	.7500	.031	.031	2581	2525
1.3125	2.8355	.9375	.9983	.7500	.140	.031	2585	2525
1.3125	2.8360	1.1875	1.1810	.9375	.031	.109	3197	3126
1.3125	2.8360	1.1875	1.1810	.9375	.140	.109	3196	3126
1.3125	2.8380	.8813	.7710	.7250	.031	.093	14131	14283
1.3125	2.8380	.8813	.7710	.7250	.140	.093	14130	14283
1.3125	2.8440	.8125	.8125	.6250	.140	.046	16131	16284
1.3125	2.8440	.9375	.8125	.7500	.140	.093	16131	16283
1.3125	2.8593	1.1875	1.1810	.9375	.031	.031	3197	3130
1.3125	2.8593	1.1875	1.1810	.9375	.031	.125	3197	3120
1.3125	2.8593	1.1875	1.1810	.9375	.140	.031	3196	3130
1.3125	2.8593	1.1875	1.1810	.9375	.140	.125	3196	3120
1.3125	2.8750	.8750	.9375	.6875	.140	.031	2876	2821
1.3125	2.8750	.8750	.9375	.6875	.140	.125	2876	2820
1.3125	2.8750	.9375	1.0100	.7500	.062	.031	2790	2735X
1.3125	2.8750	.9375	1.0100	.7500	.140	.031	2785	2735X
1.3125	2.8750	1.1563	1.0938	.9063	.031	.031	HM88547	HM88511
1.3125	2.8750	1.1563	1.0938	.9063	.031	.125	HM88547	HM88510
1.3125	2.9375	.9375	1.0100	.7500	.062	.031	2790	2736
1.3125	2.9375	.9375	1.0100	.7500	.140	.031	2785	2736
1.3125	3.0000	.7480	.7450	.6250	.062	.062	26132	26300
1.3125	3.0000	.7480	.7450	.6250	.140	.062	26131	26300
1.3125	3.0000	.9375	1.0100	.7500	.062	.031	2790	2729
1.3125	3.0000	.9375	1.0100	.7500	.062	.125	2790	2729X
1.3125	3.0000	.9375	1.0100	.7500	.062	.125	2790	2720
1.3125	3.0000	.9375	1.0100	.7500	.140	.031	2785	2729
1.3125	3.0000	.9375	1.0100	.7500	.140	.062	2785	2729X
1.3125	3.0000	.9375	1.0100	.7500	.140	.125	2785	2720
1.3125	3.0000	1.1563	1.1250	.9063	.025	.031	HM89443	HM89411

bore A	outside diam. B	width C	cone length D	cup length E	cone radius R	cup radius r	part number	
							cone	cup
1.3125	3.0000	1.1563	1.1250	.9375	.025	.046	31590	31521
1.3125	3.0000	1.1563	1.1250	.9375	.025	.125	31590	31520
1.3125	3.0000	1.1563	1.1250	.9063	.025	.125	HM89443	HM89410
1.3125	3.0000	1.1875	1.1810	.9375	.031	.031	3197	3129
1.3125	3.0000	1.1875	1.1810	.9375	.140	.031	3196	3129
1.3125	3.1250	1.0000	1.0100	.8125	.062	.125	2790	2734
1.3125	3.1250	1.0000	1.0100	.8125	.140	.125	2785	2734
1.3125	3.1250	1.1563	1.1721	.9375	.031	.125	3483	3420
1.3125	3.1250	1.1563	1.1721	.9375	.140	.125	3477	3420
1.3125	3.1496	.8268	.8820	.7018	.031	.046	3355	332
1.3125	3.1496	.9518	.8820	.8268	.031	.093	3355	332A
1.3125	3.1562	1.1563	1.1721	.9375	.031	.125	3483	3422
1.3125	3.1562	1.1563	1.1721	.9375	.140	.125	3477	3422
1.3750	2.5625	.7100	.7200	.5500	Spec.	.046	LM48548	LM48510
1.3750	2.6250	.8125	.8125	.6563	.140	.093	M38549	M38510
1.3750	2.6875	.8125	.8125	.6563	.140	.093	M38549	M38514
1.3750	2.6875	.8125	.8125	.6250	.140	.093	14585	14525
1.3750	2.7148	.7813	.7710	.6250	.062	.125	14137A	14274A
1.3750	2.7148	.7813	.7710	.6250	.140	.125	14138A	14274A
1.3750	2.7170	.7813	.7710	.6250	.062	.046	14137A	14276
1.3750	2.7170	.7813	.7710	.6250	.062	.125	14137A	14274
1.3750	2.7170	.7813	.7710	.6250	.140	.046	14138A	14276
1.3750	2.7170	.7813	.7710	.6250	.140	.125	14138A	14274
1.3750	2.7170	.8813	.7710	.7250	.062	.093	14137A	14277
1.3750	2.7170	.8813	.7710	.7250	.140	.093	14138A	14277
1.3750	2.8345	.7480	.8125	.5605	.140	.062	16137	16282
1.3750	2.8380	.8813	.7710	.7250	.062	.093	14137A	14283
1.3750	2.8380	.8813	.7710	.7250	.140	.093	14138A	14283
1.3750	2.8440	.8125	.8125	.6250	.140	.046	16137	16284
1.3750	2.8440	.9375	.8125	.7500	.140	.093	16137	16283
1.3750	2.8750	.8750	.8750	.6875	.031	.031	02878	02830
1.3750	2.8750	.8750	.9375	.6875	.031	.031	2878	2821
1.3750	2.8750	.8750	.8750	.6875	.031	.125	02878	02820
1.3750	2.8750	.8750	.9375	.6875	.031	.125	2878	2820
1.3750	2.8750	.8750	.8750	.6875	.140	.031	02877	02830
1.3750	2.8750	.8750	.9375	.6875	.140	.031	2877	2821
1.3750	2.8750	.8750	.8750	.6875	.140	.125	02877	02820
1.3750	2.8750	.8750	.9375	.6875	.140	.125	2877	2820
1.3750	2.8750	.9375	1.0100	.7500	.031	.031	2793	2735X
1.3750	2.8750	.9375	.9688	.7500	.062	.031	25877	25821
1.3750	2.8750	.9375	.9688	.7500	.062	.093	25877	25820
1.3750	2.8750	.9375	.9688	.7500	.140	.031	25878	25821
1.3750	2.8750	.9375	1.0100	.7500	.140	.031	2796	2735X
1.3750	2.8750	.9375	.9688	.7500	.140	.093	25878	25820
1.3750	2.8750	.9375	1.0100	.7500	.203	.031	2786	2735X
1.3750	2.8750	1.0625	1.0620	.8750	.140	.031	23690	23621
1.3750	2.8750	1.0625	1.0620	.8750	.140	.062	23690	23620
1.3750	2.9375	.9375	1.0100	.7500	.031	.031	2793	2736
1.3750	2.9375	.9375	1.0100	.7500	.140	.031	2796	2736
1.3750	2.9375	.9375	1.0100	.7500	.203	.031	2786	2736
1.3750	3.0000	.8125	.8244	.6105	.062	.046	28137	28300
1.3750	3.0000	.9375	1.0100	.7500	.031	.031	2793	2729
1.3750	3.0000	.9375	1.0100	.7500	.031	.062	2793	2729X
1.3750	3.0000	.9375	1.0100	.7500	.031	.125	2793	2720
1.3750	3.0000	.9375	1.0100	.7500	.140	.031	2796	2729
1.3750	3.0000	.9375	1.0100	.7500	.140	.062	2796	2729X
1.3750	3.0000	.9375	1.0100	.7500	.140	.125	2796	2720
1.3750	3.0000	.9375	1.0100	.7500	.203	.031	2786	2729
1.3750	3.0000	.9375	1.0100	.7500	.203	.062	2786	2729X
1.3750	3.0000	.9375	1.0100	.7500	.203	.125	2786	2720
1.3750	3.0000	1.1563	1.1250	.9375	.062	.046	31594	31521
1.3750	3.0000	1.1563	1.1250	.9375	.062	.125	31594	31520
1.3750	3.0000	1.1563	1.1750	.9375	.062	.125	36137	36300
1.3750	3.0000	1.1563	1.1250	.9063	.140	.031	HM89446	HM89411
1.3750	3.0000	1.1563	1.1250	.9375	.140	.046	31593	31521
1.3750	3.0000	1.1563	1.1250	.9375	.140	.125	31593	31520
1.3750	3.0000	1.1563	1.1250	.9063	.140	.125	HM89446	HM89410
1.3750	3.0625	1.0625	1.0620	.8750	.140	.031	23690	23623

TIMKEN BEARINGS—SINGLE-ROW STRAIGHT BORE—TYPE TS (Cont'd)

bore A	outside diam. B	width C	cone length D	cup length E	cone radius R	cup radius r	part number	
							cone	cup
1.3750	3.1250	1.0000	1.0100	.8125	.031	.125	2793	2734
1.3750	3.1250	1.0000	1.0100	.8125	.140	.125	2796	2734
1.3750	3.1250	1.0000	1.0100	.8125	.203	.125	2786	2734
1.3750	3.1250	1.1563	1.1721	.9375	.031	.125	3482	3420
1.3750	3.1250	1.1563	1.1721	.9375	.140	.125	3478	3420
1.3750	3.1485	1.1563	1.1965	.9375	.140	.125	3379	3325
1.3750	3.1495	.8270	.8244	.6250	.062	.062	28137	28315
1.3750	3.1496	.8268	.8820	.7018	.031	.046	335	332
1.3750	3.1496	.8268	.8820	.7018	.140	.046	343	332
1.3750	3.1496	.9518	.8820	.8268	.031	.093	335	332A
1.3750	3.1496	.9518	.8820	.8268	.140	.093	343	332A
1.3750	3.1510	.8438	.8244	.6250	.062	.062	28137	28317
1.3750	3.1510	.9688	.9330	.7288	.031	.062	27875	27820
1.3750	3.1510	1.1563	1.1965	.9375	.140	.062	3379	3339
1.3750	3.1562	1.1563	1.1721	.9375	.031	.125	3482	3422
1.3750	3.1562	1.1563	1.1965	.9375	.140	.031	3379	3331
1.3750	3.1562	1.1563	1.1965	.9375	.140	.125	3379	3320
1.3750	3.1562	1.1563	1.1721	.9375	.140	.125	3478	3422
1.3750	3.1875	.8750	.8750	.6875	.031	.031	02878	02831
1.3750	3.1875	.8750	.8750	.6875	.140	.031	02877	02831
1.3750	3.2187	1.1563	1.1965	.9375	.140	.125	3379	3329
1.3750	3.3125	1.1563	1.1965	.9375	.140	.125	3379	3328
1.3750	3.3750	1.1875	1.1875	.9375	.140	.046	3872	3821
1.3750	3.3750	1.1875	1.1875	.9375	.140	.125	3872	3820
1.3750	3.4375	1.1875	1.2160	.9375	.140	.031	3581	3526
1.3750	3.4375	1.1875	1.2160	.9375	.140	.125	3581	3525
1.3750	3.4843	1.0625	1.1450	.8750	.031	.062	417	414
1.3750	3.4843	1.0625	1.1450	.8750	.031	.125	417	414A
1.3750	3.5000	1.0625	1.1450	.8750	.031	.031	417	414X
1.3750	3.5625	1.5625	1.5900	1.3125	.140	.125	4368	4335
1.3750	3.7500	1.0938	1.1772	.8750	.031	.093	449	432
1.3750	3.7500	1.2501	1.1772	1.0313	.031	.125	449	432X
1.3770	2.6875	.6250	.6504	.4688	.062	.060	19138	19268
1.3770	2.7148	.7813	.7710	.6250	.046	.125	14139	14274A
1.3770	2.7170	.7813	.7710	.6250	.046	.046	14139	14276
1.3770	2.7170	.7813	.7710	.6250	.046	.125	14139	14274
1.3770	2.7170	.8813	.7710	.7250	.046	.093	14139	14277
1.3770	2.8125	.6250	.6504	.4688	.062	.040	19138	19281
1.3770	2.8345	.6700	.6504	.5625	.062	.062	19138	19283
1.3770	2.8380	.8813	.7710	.7250	.046	.093	14139	14283
1.3770	3.0000	.8125	.8244	.6105	.062	.046	28138	28300
1.3770	3.1495	.8270	.8244	.6250	.062	.062	28138	28315
1.3770	3.1510	.8438	.8244	.6250	.062	.062	28138	28317
1.3779	3.1250	.9375	1.0000	.7500	.031	.031	26883	26822
1.3779	3.1250	.9375	1.0000	.7500	.031	.093	26883	26822A
1.3779	3.1496	.8268	.8820	.7018	.031	.046	339	332
1.3779	3.1496	.9375	1.0000	.7500	.031	.046	26883	26824
1.3779	3.1496	.9518	.8820	.8268	.031	.093	339	332A
1.3779	3.1562	1.0000	1.0000	.8125	.031	.031	26883	26830
1.3779	3.1562	1.0000	1.0000	.8125	.031	.125	26883	26820
1.3779	3.1562	1.1563	1.0000	.9688	.031	.125	26883	26821
1.3779	3.4843	1.0625	1.1450	.8750	.031	.062	421	414
1.3779	3.4843	1.0625	1.1450	.8750	.031	.125	421	414A
1.3779	3.5000	1.0625	1.1450	.8750	.031	.031	421	414X
1.3779	3.7500	1.0938	1.1772	.8750	.140	.093	441	432
1.3779	3.7500	1.2501	1.1772	1.0313	.140	.125	441	432X
1.3780	2.8750	1.0625	1.0620	.8750	.140	.031	23691	23621
1.3780	2.8750	1.0625	1.0620	.8750	.140	.062	23691	23620
1.3780	3.0625	1.0625	1.0620	.8750	.140	.031	23691	23623
1.3780	3.1250	1.1563	1.1721	.9375	.062	.125	3480	3420
1.3780	3.1562	1.1563	1.1721	.9375	.062	.125	3480	3422
1.3900	2.8750	.8750	.9375	.6875	.140	.031	2880	2821
1.3900	2.8750	.8750	.9375	.6875	.140	.125	2880	2820
1.4365	2.8750	.9375	.9688	.7500	.062	.031	25880	25821
1.4365	2.8750	.9375	1.0100	.7500	.062	.031	2780	2735X
1.4365	2.8750	.9375	.9688	.7500	.062	.093	25880	25820
1.4365	2.8750	.9375	1.0100	.7500	.140	.031	2794	2735X
1.4365	2.9375	.9375	1.0100	.7500	.062	.031	2780	2736
1.4365	2.9375	.9375	1.0100	.7500	.140	.031	2794	2736
1.4365	3.0000	.9375	1.0100	.7500	.062	.031	2780	2729
1.4365	3.0000	.9375	1.0100	.7500	.062	.125	2780	2729X
1.4365	3.0000	.9375	1.0100	.7500	.062	.125	2780	2720
1.4365	3.0000	.9375	1.0100	.7500	.140	.031	2794	2729
1.4365	3.0000	.9375	1.0100	.7500	.140	.062	2794	2729X
1.4365	3.0000	.9375	1.0100	.7500	.140	.125	2794	2720
1.4365	3.1250	1.0000	1.0100	.8125	.062	.125	2780	2734
1.4365	3.1250	1.0000	1.0100	.8125	.140	.125	2794	2734
1.4365	3.1485	1.1563	1.1965	.9375	.140	.125	3378	3325
1.4365	3.1510	1.1563	1.1965	.9375	.140	.062	3378	3339
1.4365	3.1562	1.1563	1.1965	.9375	.140	.031	3378	3331
1.4365	3.1562	1.1563	1.1965	.9375	.140	.125	3378	3320
1.4365	3.1875	1.1563	1.1965	.9375	.140	.125	3378	3329
1.4365	3.3125	1.1563	1.1965	.9375	.140	.125	3378	3328
1.4375	2.6875	.6250	.6504	.4688	.062	.060	19143	19268

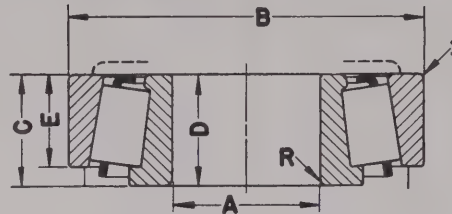
bore A	outside diam. B	width C	cone length D	cup length E	cone radius R	cup radius r	part number	
							cone	cup
1.4375	2.7170	.7500	.7500	.5938	.140	.031	13682	13620
1.4375	2.7170	.7500	.7500	.5938	.140	.093	13682	13621
1.4375	2.8125	.6250	.6504	.4688	.062	.040	19143	19281
1.4375	2.8345	.6700	.6504	.5625	.062	.062	19143	19283
1.4375	2.8345	.7480	.8125	.5605	.140	.062	16143	16282
1.4375	2.8440	.8125	.8125	.6250	.140	.046	16143	16284
1.4375	2.8440	.9375	.8125	.7500	.140	.093	16143	16283
1.4375	3.0000	1.1563	1.1250	.9063	.140	.031	HM89449	HM89411
1.4375	3.0000	1.1563	1.1250	.9375	.140	.046	31597	31521
1.4375	3.0000	1.1563	1.1250	.9375	.140	.125	31597	31520
1.4375	3.0000	1.1563	1.1250	.9063	.140	.125	HM89449	HM89410
1.4375	3.1250	.9375	1.0000	.7500	.031	.031	26877	26822
1.4375	3.1250	.9375	1.0000	.7500	.031	.093	26877	26822A
1.4375	3.1250	1.1563	1.1721	.9375	.031	.125	3479	3420
1.4375	3.1496	.9375	1.0000	.7500	.031	.046	26877	26824
1.4375	3.1562	1.0000	1.0000	.8125	.031	.031	26877	26830
1.4375	3.1562	1.0000	1.0000	.8125	.031	.125	26877	26820
1.4375	3.1562	1.1563	1.0000	.9688	.031	.125	26877	26821
1.4375	3.1562	1.1563	1.1721	.9375	.031	.125	3479	3422
1.4375	3.2500	.9375	1.0000	.7500	.140	.078	25570	25519
1.4375	3.2650	.9375	1.0000	.7500	.140	.031	25570	25520
1.4375	3.2650	.9375	1.0000	.7500	.140	.093	25570	25524
1.4375	3.2650	1.0625	1.0000	.8750	.140	.093	25570	25523
1.4375	3.2700	.9375	1.0000	.7500	.140	.125	25570	25521
1.4375	3.3465	.9375	1.0000	.7500	.140	.093	25570	25526
1.4375	3.3465	1.0625	1.0000	.8750	.140	.093	25570	25527
1.4375	3.3750	1.1875	1.1875	.9375	.031	.125	3878	3821
1.4375	3.3750	1.1875	1.1875	.9375	.031	.046	3878	3820
1.4375	3.6875	1.2500	1.2500	1.0313	.062	.046	46143	46369
1.4375	3.6875	1.2500	1.2500	1.0313	.062	.125	46143	46368
1.5000	2.5000	.5000	.4688	.3750	.062	.031	13889	13830
1.5000	2.5625	.5000	.4688	.3750	.062	.031	13889	13836
1.5000	2.6875	.6250	.6504	.4688	.060	.060	19150	19268
1.5000	2.7170	.7500	.7500	.5938	.078	.031	13687	13620
1.5000	2.7170	.7500	.7500	.5938	.078	.093	13687	13621
1.5000	2.7170	.7500	.7500	.5938	.140	.031	13685	13620
1.5000	2.7170	.7500	.7500	.5938	.140	.093	13685	13621
1.5000	2.8125	.6250	.6504	.4688	.060	.040	19150	19281
1.5000	2.8345	.6700	.6504	.5625	.060	.062	19150	19283
1.5000	2.8345	.7480	.8125	.5605	.140	.062	16150	16282
1.5000	2.8440	.8125	.8125	.6250	.140	.046	16150	16284
1.5000	2.8440	.9375	.8125	.7500	.140	.093	16150	16283
1.5000	2.8750	.9375	1.0100	.7500	.062	.031	2788A	2735X
1.5000	2.8750	.9375	1.0100	.7500	.140	.031	2788	273



TIMKEN® BEARINGS

single-row straight bore — type TS

ARRANGED BY BORE DIAMETERS



AVAILABLE IN
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TOLERANCES

Class No. 4
Class No. 2
Class No. 3
Class No. 0

See page 122

(Continued)

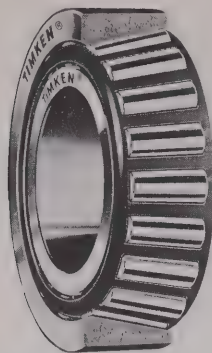
bore A	outside diam. B	width C	cone length D	cup length E	cone radius R	cup radius r	part number	
							cone	cup
1.5000	3.1562	1.1563	1.1965	.9375	.031	.125	3387	3320
1.5000	3.1562	1.1563	1.1965	.9375	.140	.031	3381	3331
1.5000	3.1562	1.1563	1.1721	.9375	.140	.125	3490	3422
1.5000	3.1562	1.1563	1.1965	.9375	.140	.125	3381	3320
1.5000	3.2187	1.1563	1.1965	.9375	.031	.125	3387	3329
1.5000	3.2187	1.1563	1.1965	.9375	.140	.125	3381	3329
1.5000	3.2500	.9375	1.0000	.7500	.031	.078	25572	25519
1.5000	3.2500	1.1563	1.1250	.9063	.031	.125	HM801346	HM801310
1.5000	3.2650	.9375	1.0000	.7500	.031	.031	25572	25520
1.5000	3.2650	.9375	1.0000	.7500	.031	.093	25572	25524
1.5000	3.2650	1.0625	1.0000	.8750	.031	.093	25572	25523
1.5000	3.2700	.9375	1.0000	.7500	.031	.125	25572	25521
1.5000	3.3125	1.1563	1.1965	.9375	.031	.125	3387	3328
1.5000	3.3125	1.1563	1.1965	.9375	.140	.125	3381	3328
1.5000	3.3465	.9375	1.0000	.7500	.031	.093	25572	25526
1.5000	3.3465	1.0625	1.0000	.8750	.031	.093	25572	25527
1.5000	3.3750	1.1875	1.1875	.9375	.031	.046	3875	3821
1.5000	3.3750	1.1875	1.1875	.9375	.031	.125	3875	3820
1.5000	3.3750	1.1875	1.1875	.9375	.140	.046	3876	3821
1.5000	3.3750	1.1875	1.1875	.9375	.140	.125	3876	3820
1.5000	3.4375	1.1875	1.2160	.9375	.062	.031	3580	3526
1.5000	3.4375	1.1875	1.2160	.9375	.062	.125	3580	3525
1.5000	3.4375	1.1875	1.2160	.9375	.140	.031	3583	3526
1.5000	3.4375	1.1875	1.2160	.9375	.140	.125	3583	3525
1.5000	3.4843	1.0625	1.1450	.8750	.031	.062	415	414
1.5000	3.4843	1.0625	1.1450	.8750	.031	.125	415	414A
1.5000	3.4843	1.0625	1.1450	.8750	.140	.062	418	414
1.5000	3.4843	1.0625	1.1450	.8750	.140	.125	418	414A
1.5000	3.5000	1.0625	1.1450	.8750	.031	.031	415	414X
1.5000	3.5000	1.0625	1.1450	.8750	.140	.031	418	414X
1.5000	3.5625	1.5625	1.5900	1.3125	.062	.125	4375	4335
1.5000	3.6875	1.2500	1.2500	1.0313	.031	.046	46150	46369
1.5000	3.6875	1.2500	1.2500	1.0000	.031	.125	49151	49368
1.5000	3.6875	1.2500	1.2500	1.0313	.031	.125	46150	46368
1.5000	3.6875	1.2500	1.2500	1.0313	.140	.046	46151	46369
1.5000	3.6875	1.2500	1.2500	1.0000	.140	.125	49150	49368
1.5000	3.6875	1.2500	1.2500	1.0313	.140	.125	46151	46368
1.5000	3.7500	1.0938	1.1772	.8750	.031	.093	440	432
1.5000	3.7500	1.0938	1.1772	.8750	.140	.093	33880	33821
1.5000	3.7500	1.0938	1.1772	.8750	.140	.093	444	432
1.5000	3.7500	1.2501	1.1772	1.0313	.031	.125	440	432X
1.5000	3.7500	1.2501	1.1772	1.0313	.140	.125	444	432X
1.5000	4.0000	1.3750	1.4200	1.0625	.031	.125	525X	522
1.5000	4.0000	1.3750	1.4200	1.0625	.140	.125	525	522
1.5000	4.2500	1.4375	1.4550	1.1250	.140	.125	542	532X
1.5000	4.3750	1.5000	1.4550	1.1875	.140	.125	542	532A
1.3150	2.5000	.5000	.4688	.3750	.015	.031	13890	13830
1.5150	2.5625	.5000	.4688	.3750	.015	.031	13890	13836
1.5625	2.8750	.6562	.6875	.5000	.031	.062	18587	18520
1.5625	2.8750	.9375	1.0100	.7500	.140	.031	2789	2735X
1.5625	2.9375	.9375	1.0100	.7500	.140	.031	2789	2736
1.5625	3.0000	.9375	1.0100	.7500	.140	.031	2789	2729
1.5625	3.0000	.9375	1.0100	.7500	.140	.062	2789	2729X
1.5625	3.0000	.9375	1.0100	.7500	.140	.125	2789	2720
1.5625	3.1250	.9375	1.0000	.7500	.062	.031	26880	26822
1.5625	3.1250	.9375	1.0000	.7500	.062	.093	26880	26822A
1.5625	3.1250	.9375	1.0000	.7500	.140	.031	26881	26822
1.5625	3.1250	.9375	1.0000	.7500	.140	.093	26881	26822A
1.5625	3.1250	1.0000	1.0100	.8125	.140	.125	2789	2734
1.5625	3.1485	1.1563	1.1965	.9375	.031	.125	3386	3325
1.5625	3.1485	1.1563	1.1965	.9375	.140	.125	3382	3325
1.5625	3.1496	.9375	1.0000	.7500	.062	.046	26880	26824
1.5625	3.1496	.9375	1.0000	.7500	.140	.046	26881	26824A
1.5625	3.1510	1.1563	1.1965	.9375	.031	.062	3386	3339
1.5625	3.1510	1.1563	1.1965	.9375	.140	.062	3382	3339
1.5625	3.1562	1.0000	1.0000	.8125	.062	.031	26880	26830
1.5625	3.1562	1.0000	1.0000	.8125	.140	.031	26881	26830

bore A	outside diam. B	width C	cone length D	cup length E	cone radius R	cup radius r	part number	
							cone	cup
1.5625	3.1562	1.0000	1.0000	.8125	.140	.125	26881	26820
1.5625	3.1562	1.1563	1.1965	.9375	.031	.031	3386	3331
1.5625	3.1562	1.1563	1.1965	.9375	.031	.125	3386	3320
1.5625	3.1562	1.1563	1.0000	.9688	.062	.125	26880	26821
1.5625	3.1562	1.1563	1.1965	.9375	.140	.031	3382	3331
1.5625	3.1562	1.1863	1.0000	.9688	.140	.125	26881	26821
1.5625	3.1562	1.1563	1.1965	.9375	.140	.125	3382	3320
1.5625	3.2187	1.1563	1.1965	.9375	.031	.125	3386	3329
1.5625	3.2187	1.1563	1.1965	.9375	.140	.125	3382	3329
1.5625	3.3125	1.1563	1.1965	.9375	.031	.125	3386	3328
1.5625	3.3125	1.1563	1.1965	.9375	.140	.125	3382	3328
1.5625	3.4843	1.0625	1.1450	.8750	.140	.062	422	414
1.5625	3.4843	1.0625	1.1450	.8750	.140	.125	422	414A
1.5625	3.5000	1.0625	1.1450	.8750	.140	.031	422	414X
1.5625	3.5625	1.5625	1.5900	1.3125	.140	.125	4367	4335
1.5625	3.6718	1.1875	1.1930	.9375	.140	.031	3774	3730
1.5625	3.6718	1.1875	1.1930	.9375	.140	.125	3774	3720
1.5625	3.7500	1.1875	1.1930	.9375	.140	.125	3774	3726
1.5625	3.8750	1.1875	1.1930	.9375	.140	.125	3774	3732
1.5625	4.7260	1.6250	1.6250	1.2500	.031	.125	620	612A
1.5625	4.7500	1.6250	1.6250	1.2500	.031	.031	620	6125
1.5625	4.7500	1.6250	1.6250	1.2500	.031	.125	620	612
1.5740	3.0000	.7090	.6844	.5625	.062	.062	11157	11300
1.5740	3.0000	.8125	.8244	.6105	.140	.046	28159	28300
1.5740	3.1495	.7090	.6844	.5625	.062	.062	11157	11315
1.5740	3.1495	.8270	.8244	.6250	.140	.062	28159	28315
1.5740	3.1510	.8438	.8244	.6250	.140	.062	28159	28317
1.5748	3.0000	.8125	.8244	.6105	.062	.046	28158	28300
1.5748	3.1495	.8270	.8244	.6250	.062	.062	28158	28315
1.5748	3.1496	.8268	.8820	.7018	.031	.046	344A	332
1.5748	3.1496	.8268	.8820	.7018	.140	.046	344	332
1.5748	3.1496	.9518	.8820	.8268	.031	.093	344A	332A
1.5748	3.1496	.9518	.8820	.8268	.140	.093	344	332A
1.5748	3.1510	.8438	.8244	.6250	.062	.062	28158	28317
1.5748	3.3464	.8125	.8540	.6875	.031	.046	350A	354A
1.5748	3.3464	.8125	.8540	.6875	.093	.046	357	354A
1.5748	3.3464	.8125	.8540	.6875	.156	.046	350	354A
1.5748	3.4375	1.1875	1.2160	.9375	.140	.031	3582	3526
1.5748	3.4375	1.1875	1.2160	.9375	.140	.125	3582	3525
1.5748	3.4843	1.0625	1.1450	.8750	.140	.062	420	414
1.5748	3.4843	1.0625	1.1450	.8750	.140	.125	420	414A
1.5748	3.5000	1.0625	1.1450	.8750	.140	.031	420	414X
1.5748	3.5480	.9055	.8540	.8586	.031	.093	350A	352
1.5748	3.5480	.9055	.8540	.8586	.093	.093	357	352
1.5748	3.5480	.9055	.8540	.8586	.156	.093	350	352
1.5748	3.7500	1.0938	1.1772	.8750	.140	.093	4425	432
1.5748	3.7500	1.2501	1.1772	1.0313	.140	.125	4425	432X
1.5748	4.2500	1.4375	1.4550	1.1250	.140	.125	543	532X
1.5748	4.3750	1.5000	1.4550	1.1875	.140	.125	543	532A
1.5748	4.3750	1.1875	1.1875	.9375	.031	.046	3879	3821
1.5749	4.3750	1.1875	1.1875	.9375	.031	.125	3879	3820
1.6250	2.8750	.6562	.6875	.5000	.140	.062	18590	18520
1.6250	2.8910	.7700	.7800	.5800	.140	.031	LM501349	LM501310
1.6250	3.0000	.7090	.6844	.5625	.031	.062	11163	11300
1.6250	3.0000	.7090	.6844	.5625	.062	.062	11162	11300
1.6250	3.0000	.8750	.9063	.6875	.140	.031	24780	24720
1.6250	3.0000	.8750	.9063	.6875	.140	.125	24780	24722
1.6250	3.0000	1.0000	.9063	.8125	.140	.093	24780	24721
1.6250	3.1250	.9375	1.0000	.7500	.031	.031	26885	26822
1.6250	3.1250	.9375	1.0000	.7500	.031	.093	26885	26822A
1.6250	3.1250	.9375	1.0000	.7500	.140	.031	26882	26822
1.6250	3.1250	.9375	1.0000	.7500	.140	.093	26882	26822A
1.6250	3.1495	.7090	.6844	.5625	.031	.062	11163	11315
1.6250	3.1495	.7090	.6844	.5625	.062	.062	11162	11315
1.6250	3.1496	.8268	.8820	.7018	.031	.046	336	332
1.6250	3.1496	.8268	.8820	.7018	.140	.046	342	332
1.6250	3.1496	.9375	1.0000	.7500	.031	.046	26885	2682A
1.6250	3.1496	.9375	1.0000	.7500	.140	.046	26882	2682A
1.6250	3.1496	.9518	.8820	.8268	.031	.093	336	332A

TIMKEN BEARINGS—SINGLE-ROW STRAIGHT BORE—TYPE TS (Cont'd)

bore A	outside diam. B	width C	cone length D	cup length E	cone radius R	cup radius F	part number	
							cone	cup
1.6250	3.1496	.9518	.8820	.8268	.140	.093	342	332A
1.6250	3.1562	1.0000	1.0000	.8125	.031	.031	26885	26830
1.6250	3.1562	1.0000	1.0000	.8125	.031	.125	26885	26820
1.6250	3.1562	1.0000	1.0000	.8125	.140	.031	26882	26830
1.6250	3.1562	1.0000	1.0000	.8125	.140	.125	26882	26820
1.6250	3.1562	1.1563	1.0000	.9688	.031	.125	26885	26821
1.6250	3.1562	1.1563	1.0000	.9688	.140	.125	26882	26821
1.6250	3.3750	1.1875	1.1875	.9375	.031	.046	3880	3821
1.6250	3.3750	1.1875	1.1875	.9375	.031	.125	3880	3820
1.6250	3.3750	1.1875	1.1875	.9375	.140	.046	3877	3821
1.6250	3.3750	1.1875	1.1875	.9375	.140	.125	3877	3820
1.6250	3.4375	1.1875	1.2160	.9375	.031	.031	3576	3526
1.6250	3.4375	1.1875	1.2160	.9375	.031	.125	3576	3525
1.6250	3.4375	1.1875	1.2160	.9375	.062	.031	3585	3526
1.6250	3.4375	1.1875	1.2160	.9375	.062	.125	3585	3525
1.6250	3.4375	1.1875	1.2160	.9375	.140	.031	3577	3526
1.6250	3.4375	1.1875	1.2160	.9375	.140	.125	3577	3525
1.6250	3.4843	1.0625	1.1450	.8750	.140	.062	419	414
1.6250	3.4843	1.0625	1.1450	.8750	.140	.125	419	414A
1.6250	3.5000	.8125	.8750	.6501	.140	.046	365A	362A
1.6250	3.5000	1.0625	1.1450	.8750	.140	.031	419	414X
1.6250	3.5000	1.1875	1.1563	.9063	.031	.031	HM803145	HM803111
1.6250	3.5000	1.1875	1.1563	.9063	.031	.125	HM803145	HM803110
1.6250	3.5000	1.1875	1.1563	.9063	.140	.031	HM803146	HM803111
1.6250	3.5000	1.1875	1.1563	.9063	.140	.125	HM803146	HM803110
1.6250	3.5433	.7874	.8750	.7874	.140	.031	365A	363
1.6250	3.5433	.7874	.8750	.6250	.140	.078	365A	362
1.6250	3.5625	1.5625	1.5900	1.3125	.140	.125	4388	4335
1.6250	3.6250	1.1875	1.1563	.9063	.031	.125	HM803145	HM803112
1.6250	3.6250	1.1875	1.1563	.9063	.140	.125	HM803146	HM803112
1.6250	3.6875	1.2500	1.2500	1.0313	.031	.046	46162	46369
1.6250	3.6875	1.2500	1.2500	1.0313	.031	.125	46162	46368
1.6250	3.6875	1.2500	1.2500	1.0000	.140	.125	49162	49368
1.6250	3.7500	1.0938	1.1772	.8750	.046	.093	439	432
1.6250	3.7500	1.0938	1.1772	.8750	.140	.093	447	432
1.6250	3.7500	1.1875	1.1563	.9063	.140	.125	HM804840	HM804810
1.6250	3.7500	1.2501	1.1772	1.0313	.046	.125	439	432X
1.6250	3.7500	1.2501	1.1772	1.0313	.140	.125	447	432X
1.6250	4.0000	1.3750	1.4200	1.0625	.031	.125	526A	522
1.6250	4.0000	1.3750	1.4200	1.0625	.140	.125	526	522
1.6250	4.1250	1.1875	1.1542	.9687	.062	.125	464A	453X
1.6250	4.1250	1.1875	1.1542	.9687	.093	.125	464	453X
1.6250	4.1250	1.4375	1.4375	1.1250	.062	.031	59162	59413
1.6250	4.1250	1.4375	1.4375	1.1250	.062	.031	HM807035	HM807011
1.6250	4.1250	1.4375	1.4375	1.1250	.062	.125	59162	59412
1.6250	4.1250	1.4375	1.4375	1.1250	.062	.125	HM807035	HM807010
1.6250	4.2500	1.0938	1.1542	.8750	.062	.031	464A	453A
1.6250	4.2500	1.0938	1.1542	.8750	.093	.031	464	453A
1.6250	4.2500	1.4375	1.4375	1.1250	.062	.125	59162	59425
1.6250	4.2500	1.4375	1.4375	1.1250	.140	.125	541	532X
1.6250	4.2900	1.3750	1.4375	1.0625	.062	.125	59162	59429
1.6250	4.3307	1.0943	1.1542	1.0630	.062	.078	464A	454
1.6250	4.3307	1.0943	1.1542	1.0630	.093	.078	464	454
1.6250	4.3750	1.5000	1.4550	1.1875	.140	.125	541	532A
1.6563	3.5625	1.5625	1.5900	1.3125	.140	.125	4395	4335
1.6870	4.1250	1.1875	1.1542	.9687	.031	.125	461	453X
1.6870	4.2500	1.0938	1.1542	.8750	.031	.031	461	453A
1.6870	4.3307	1.0943	1.1542	1.0630	.031	.078	461	454
1.6875	3.0312	.6875	.6750	.4688	.060	.060	12168	12303
1.6875	3.2500	.7812	.7810	.5937	.090	.062	22168	22325
1.6875	3.2500	.9375	1.0000	.7500	.090	.078	25578	25519
1.6875	3.2500	.9375	1.0000	.7500	.140	.078	25576	25519
1.6875	3.2500	1.0313	1.0625	.8125	.140	.125	22780	22720
1.6875	3.2650	.9375	1.0000	.7500	.090	.031	25578	25520
1.6875	3.2650	.9375	1.0000	.7500	.090	.093	25578	25524
1.6875	3.2650	.9375	1.0000	.7500	.140	.031	25576	25520
1.6875	3.2650	.9375	1.0000	.7500	.140	.093	25576	25524
1.6875	3.2650	1.0625	1.0000	.8750	.090	.093	25578	25523
1.6875	3.2650	1.0625	1.0000	.8750	.140	.093	25576	25523
1.6875	3.2700	.9375	1.0000	.7500	.090	.125	25578	25521
1.6875	3.2700	.9375	1.0000	.7500	.140	.125	25576	25521
1.6875	3.3465	.9375	1.0000	.7500	.090	.093	25578	25526
1.6875	3.3465	.9375	1.0000	.7500	.140	.093	25576	25526
1.6875	3.3465	1.0625	1.0000	.8750	.090	.093	25578	25527
1.6875	3.3465	1.0625	1.0000	.8750	.140	.093	25576	25527
1.6875	3.4375	1.1875	1.2160	.9375	.140	.031	3579	3526
1.6875	3.4375	1.1875	1.2160	.9375	.140	.125	3579	3525
1.6875	4.0000	1.7500	1.7500	1.3750	.078	.031	65383	65321
1.6875	4.0000	1.7500	1.7500	1.3750	.078	.125	65383	65320
1.6880	3.1250	.9375	1.0000	.7500	.062	.031	26886	26822
1.6880	3.1250	.9375	1.0000	.7500	.140	.031	26884	26822
1.6880	3.1250	.9375	1.0000	.7500	.140	.093	26884	26822A
1.6880	3.1496	.8268	.8820	.7018	.140	.046	3425	332

bore A	outside diam. B	width C	cone length D	cup length E	cone radius R	cup radius r	part number	
							cone	cup
1.6880	3.1496	.9375	1.0000	.7500	.062	.046	26886	26824
1.6880	3.1496	.9375	1.0000	.7500	.140	.046	26884	26824
1.6880	3.1496	.9518	.8820	.8268	.140	.093	3425	332A
1.6880	3.1562	1.0000	1.0000	.8125	.062	.031	26886	26830
1.6880	3.1562	1.0000	1.0000	.8125	.062	.125	26886	26820
1.6880	3.1562	1.0000	1.0000	.8125	.140	.031	26884	26830
1.6880	3.1562	1.0000	1.0000	.8125	.140	.125	26884	26820
1.6880	3.1562	1.1563	1.0000	.9688	.062	.125	26886	26821
1.6880	3.1562	1.1563	1.0000	.9688	.140	.125	26884	26821
1.6880	3.2500	.9375	1.0000	.7500	.140	.078	25577	25519
1.6880	3.2650	.9375	1.0000	.7500	.140	.031	25577	25520
1.6880	3.2650	.9375	1.0000	.7500	.140	.093	25577	25524
1.6880	3.2650	1.0625	1.0000	.8750	.140	.093	25577	25523
1.6880	3.2700	.9375	1.0000	.7500	.140	.125	25577	25521
1.6880	3.3465	.9375	1.0000	.7500	.140	.093	25577	25526
1.6880	3.3465	1.0625	1.0000	.8750	.140	.093	25577	25527
1.6924	2.9523	.7625	.7810	.5625	.062	.046	16986	16929
1.7500	2.8125	.5000	.5000	.3750	.062	.062	LL103049	LL103010
1.7500	2.8750	.7188	.7188	.5938	.062	.062	L102849	L102810
1.7500	3.0312	.6875	.6750	.4688	.060	.060	12175	12303
1.7500	3.1250	.6875	.6875	.5313	.109	.062	18685	18620
1.7500	3.1875	.7500	.6875	.5625	.000	.062	13175	13318
1.7500	3.2500	.9375	1.0000	.7500	.015	.078	25581	25519
1.7500	3.2500	.9375	1.0000	.7500	.140	.078	25580	25519
1.7500	3.2650	.8750	.9060	.6875	.031	.031	35176	35326
1.7500	3.2650	.8750	.9060	.6875	.140	.031	35175	35326
1.7500	3.2650	.9375	1.0000	.7500	.015	.031	25581	25520
1.7500	3.2650	.9375	1.0000	.7500	.015	.093	25581	25524
1.7500	3.2650	.9375	1.0000	.7500	.140	.031	25580	25520
1.7500	3.2650	.9375	1.0000	.7500	.140	.093	25580	25524
1.7500	3.2650	1.0625	1.0000	.8750	.015	.093	25581	25523
1.7500	3.2700	.9375	1.0000	.7500	.015	.125	25581	25521
1.7500	3.2700	.9375	1.0000	.7500	.140	.125	25580	25521
1.7500	3.3464	.8125	.8540	.6875	.031	.046	355A	354A
1.7500	3.3464	.8125	.8540	.6875	.093	.046	355	354A
1.7500	3.3464	.8125	.8540	.6875	.140	.046	355X	354A
1.7500	3.3465	.9375	1.0000	.7500	.015	.093	25581	25526
1.7500	3.3465	.9375	1.0000	.7500	.140	.093	25580	25526
1.7500	3.3465	1.0625	1.0000	.8750	.015	.093	25581	25527
1.7500	3.3465	1.0625	1.0000	.8750	.140	.093	25580	25527
1.7500	3.4375	1.0625	1.0000	.8750	.140	.093	25580	25527
1.7500	3.4375	1.1875	1.2160	.9375	.140	.031	3578	3526
1.7500	3.4375	1.1875	1.2160	.9375	.140	.125	3578	3525
1.7500	3.5000	1.1875	1.1563	.9063	.140	.031	HM803149	HM803110
1.7500	3.5000	1.1875	1.1563	.9063	.140	.125	HM803149	HM803110
1.7500	3.5480	.9055	.8540	.8586	.031	.093	355A	352
1.7500	3.5480	.9055	.8540	.8586	.093	.093	355	352
1.7500	3.5480	.9055	.8540	.8586	.140	.093	355X	352
1.7500	3.6250	1.1875	1.1563	.9063	.140	.125	HM803149	HM803112
1.7500	3.6718	1.1875	1.1930	.9375	.140	.031	3782	3730
1.7500	3.6718	1.1875	1.1930	.9375	.140	.125	3782	3720
1.7500	3.6718	1.1875	1.1930	.9375	.250	.031	3783	3783
1.7500	3.6718	1.1875	1.1930	.9375	.250	.125	3783	3720
1.7500	3.6875	1.2500	1.2500	1.0313	.031	.046	46175	46369
1.7500	3.6875	1.2500	1.2500	1.0313	.031	.125	46175	46368
1.7500	3.6875	1.2500	1.2500	1.0000	.031	.125	49176	49368
1.7500	3.6875	1.2500	1.2500	1.0313	.140	.046	46176	46369
1.7500	3.6875	1.2500	1.2500	1.0313	.140	.125	46176	46368
1.7500	3.6875	1.2500	1.2500	1.0000	.140	.125	49175	49368
1.7500	3.7500	1.0938	1.1250	.8750	.031	.093	33885	33821
1.7500	3.7500	1.0938	1.1772	.8750	.031	.093	435	432
1.7500	3.7500	1.0938	1.1772	.8750	.140	.093	438	432
1.7500	3.7500	1.1875	1.1930	.9375	.140	.125	3782	3726
1.7500	3.7500	1.1875	1.1563	.9063	.140	.125	HM804843	HM804810
1.7500	3.7500	1.1875	1.1930	.9375	.250	.125	3783	3726
1.7500	3.7500	1.2501	1.1772	1.0313	.250	.125	435	432X
1.7500	3.7500	1.2501	1.1772	1.0313	.140	.125	438	432X
1.7500	3.8750	1.1875	1.1930	.9375	.140	.125	3782	3732
1.7500	3.8750	1.1875	1.1930	.9375	.250	.125	3783	3732
1.7500	4.0000	1.2500	1.2500	1.0000	.031	.031	49576	49522
1.7500	4.0000	1.2500	1.2500	1.0000	.031	.125	49576	49520
1.7500	4.0000	1.2500	1.2500	1.0000	.140	.031	49577	49522
1.7500	4.0000	1.2500	1.2500	1.0000	.140	.125	49577	49520
1.7500	4.0000	1.3750	1.2500	1.1250	.031	.125	49576	49521
1.7500	4.0000	1.3750	1.4200	1.0625	.140	.125	527	522
1.7500	4.0625	1.7188	1.7510	1.4375	.046	.125	5356	5335
1.7500	4.1250	1.1875	1.2188	.9375	.031	.031	45280	45221
1.7500	4.1250	1.1875	1.2188	.9375	.031	.125	45280	45220
1.7500	4.1250	1.1875	1.1542	.9687	.031	.125	458	453X
1.7500	4.1250	1.1875	1.1542	.9687	.140	.125	460	453X
1.7500	4.1250	1.4375	1.4375	1.1250	.031	.031	59176	59413
1.7500	4.1250	1.4375	1.4375	1.1250	.031	.125	59176	59412
1.7500	4.1250	1.4375	1.4375	1.1250	.140	.031	59175	59412

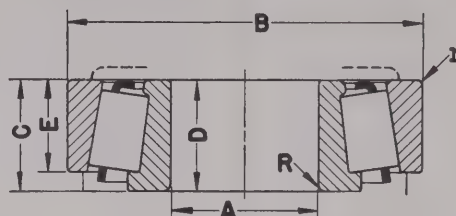


TIMKEN® BEARINGS

REGISTERED TRADE MARK
THE TIMKEN STEEL BEARING COMPANY

single-row straight bore – type TS

ARRANGED BY BORE DIAMETERS



AVAILABLE IN
PRECISION
TOLERANCES

Class No. 4
Class No. 2
Class No. 3
Class No. 0

See page 122

(Continued)

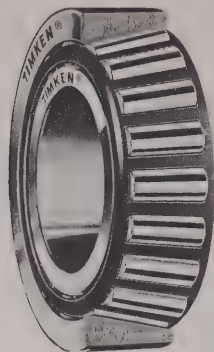
bore A	outside diam. B	width C	cone length D	cup length E	cone radius R	cup radius r	part number	
							cone	cup
1.7500	4.1250	1.4375	1.4375	1.1250	.140	.031	HM807040	HM807011
1.7500	4.1250	1.4375	1.4375	1.1250	.140	.125	59175	59412
1.7500	4.1250	1.4375	1.4375	1.1250	.140	.125	HM807040	HM807010
1.7500	4.2500	1.0938	1.1542	.8750	.031	.031	458	453A
1.7500	4.2500	1.0938	1.1542	.8750	.140	.031	460	453A
1.7500	4.2500	1.4375	1.4375	1.1250	.031	.125	59176	59425
1.7500	4.2500	1.4375	1.4375	1.1250	.140	.125	59175	59425
1.7500	4.2500	1.4375	1.4550	1.1250	.140	.125	535	532X
1.7500	4.2900	1.3750	1.4375	1.0625	.031	.125	59176	59429
1.7500	4.2900	1.3750	1.4375	1.0625	.140	.125	59175	59429
1.7500	4.3307	1.0943	1.1542	1.0630	.031	.078	458	454
1.7500	4.3307	1.0943	1.1542	1.0630	.140	.078	460	454
1.7500	4.3750	1.5000	1.4550	1.1875	.140	.125	535	532A
1.7500	4.5000	1.7500	1.7500	1.3750	.078	.031	65384	65321
1.7500	4.5000	1.7500	1.7500	1.3750	.078	.125	65384	65320
1.7500	4.5000	1.7500	1.7500	1.3750	.140	.031	65385	65321
1.7500	4.5000	1.7500	1.7500	1.3750	.140	.125	65385	65320
1.7500	4.7260	1.6250	1.6250	1.2500	.140	.125	615	612A
1.7500	4.7500	1.6250	1.6250	1.2500	.140	.031	615	6125
1.7500	4.7500	1.6250	1.6250	1.2500	.140	.125	615	612
1.7500	5.0000	2.0000	2.0625	1.6250	.140	.125	6277	6220
1.7665	3.6250	.9688	1.0000	.7813	.140	.031	28576	28521
1.7665	3.6250	1.0937	1.0000	.9062	.140	.093	28576	28523
1.7710	3.2500	.9375	1.0000	.7500	.062	.078	25584	25519
1.7710	3.2650	.9375	1.0000	.7500	.062	.031	25584	25520
1.7710	3.2650	.9375	1.0000	.7500	.062	.093	25584	25521
1.7710	3.2650	1.0625	1.0000	.8750	.062	.093	25584	25523
1.7710	3.2700	.9375	1.0000	.7500	.062	.125	25584	25521
1.7710	3.3465	.9375	1.0000	.7500	.062	.093	25584	25526
1.7710	3.3465	1.0625	1.0000	.8750	.062	.093	25584	25527
1.7710	3.6718	1.1875	1.1930	.9375	.140	.031	3776	3730
1.7710	3.6718	1.1875	1.1930	.9375	.140	.125	3776	3720
1.7710	3.7500	1.1875	1.1930	.9375	.140	.125	3776	3726
1.7710	3.8750	1.1875	1.1930	.9375	.140	.125	3776	3732
1.7710	4.0000	1.3750	1.4200	1.0625	.171	.125	5275	522
1.7716	3.3464	.8125	.8540	.6875	.062	.046	358A	354A
1.7716	3.3464	.8125	.8540	.6875	.140	.046	367	362A
1.7716	3.5000	.8125	.8540	.6875	.078	.046	367	363
1.7716	3.5433	.7874	.8750	.7874	.078	.031	367	363
1.7716	3.5433	.7874	.8750	.6250	.078	.078	367	362
1.7716	3.5480	.9055	.8540	.8586	.062	.093	358	352
1.7716	3.5480	.9055	.8540	.8586	.140	.093	358A	352
1.7716	3.6718	.8125	.8750	.5938	.031	.046	376	374
1.7716	3.6718	.8125	.8750	.5938	.093	.046	376A	374
1.7716	3.8125	.8750	.8750	.7500	.031	.062	376	372A
1.7716	3.8125	.8750	.8750	.7500	.093	.062	376A	372A
1.7716	3.9370	.9842	.8750	.8592	.031	.078	376	372
1.7716	3.9370	.9842	.8750	.8592	.093	.078	376A	372
1.7716	4.1250	1.1875	1.1542	.9687	.093	.125	4585	453X
1.7716	4.1250	1.5625	1.5810	1.3125	.140	.125	4559	4535
1.7716	4.2500	1.0938	1.1542	.8750	.093	.031	4585	453A
1.7716	4.3307	1.0943	1.1542	1.0630	.093	.078	4585	454
1.7716	4.3750	1.5313	1.5810	1.2813	.140	.125	4559	4536
1.7810	3.4375	1.1875	1.2160	.9375	.140	.031	3586	3526
1.7810	3.4375	1.1875	1.2160	.9375	.140	.125	3586	3525
1.7812	3.0625	.7812	.7812	.5937	.140	.031	LM603049	LM603011
1.7812	3.1886	.7812	.7812	.5937	.140	.031	LM603049	LM603014
1.7960	3.2500	.9375	1.0000	.7500	.140	.078	25590	25519
1.7960	3.2650	.9375	1.0000	.7500	.140	.031	25590	25520
1.7960	3.2650	.9375	1.0000	.7500	.140	.093	25590	25524
1.7960	3.2650	1.0625	1.0000	.8750	.140	.093	25590	25523
1.7960	3.2700	.9375	1.0000	.7500	.140	.125	25590	25521
1.7960	3.3465	.9375	1.0000	.7500	.140	.093	25590	25520
1.7960	3.3465	1.0625	1.0000	.8750	.140	.093	25590	25527
1.8125	3.0625	.5000	.5000	.3750	.062	.062	LL205442	LL205410
1.8125	3.1250	.6875	.6875	.5313	.109	.062	18690	18620
1.8125	3.1875	.7500	.6875	.5625	.035	.062	13181	13318
1.8125	3.3464	.6875	.6875	.5313	.093	.062	18780	18720

bore A	outside diam. B	width C	cone length D	cup length E	cone radius R	cup radius r	part number	
							cone	cup
1.8125	3.3464	.8125	.8540	.6875	.093	.046	3595	354A
1.8125	3.3464	.8125	.8540	.6875	.140	.046	359A	354A
1.8125	3.3464	1.0000	1.0082	.8125	.140	.046	2984	2924
1.8125	3.4375	1.0625	1.0082	.8750	.140	.093	2984	2925
1.8125	3.5000	.6875	.6875	.5313	.093	.046	18780	18724
1.8125	3.5000	.8125	.6875	.6563	.093	.046	18780	18723
1.8125	3.5480	.9055	.8540	.8586	.093	.093	3595	352
1.8125	3.5480	.9055	.8540	.8586	.140	.093	359A	352
1.8125	3.6718	1.1875	1.1930	.9375	.140	.031	3777	3730
1.8125	3.6718	1.1875	1.1930	.9375	.140	.125	3777	3720
1.8125	3.7500	1.0938	1.1772	.8750	.140	.093	436	432
1.8125	3.7500	1.1875	1.1930	.9375	.140	.125	3777	3726
1.8125	3.7500	1.2501	1.1772	1.0313	.140	.125	436	432X
1.8125	3.8750	1.1875	1.1930	.9375	.140	.125	3777	3732
1.8750	3.5000	.8125	.8750	.6501	.093	.046	3695	362A
1.8750	3.5000	.8125	.8750	.6501	.140	.046	369A	362A
1.8750	3.5433	.7874	.8750	.7874	.093	.031	3695	363
1.8750	3.5433	.7874	.8750	.6250	.093	.078	3695	362
1.8750	3.5433	.7874	.8750	.7874	.140	.031	369A	363
1.8750	3.5433	.7874	.8750	.6250	.140	.078	369A	362
1.8750	3.6718	1.1875	1.1930	.9375	.140	.031	3779	3730
1.8750	3.6718	1.1875	1.1930	.9375	.140	.125	3779	3720
1.8750	3.6718	1.1875	1.1930	.9375	.250	.031	3778	3730
1.8750	3.6718	1.1875	1.1930	.9375	.250	.125	3778	3720
1.8750	3.7500	1.1875	1.1930	.9375	.140	.125	3779	3726
1.8750	3.7500	1.1875	1.1563	.9063	.140	.125	HM804846	HM804810
1.8750	3.7500	1.1875	1.1930	.9375	.250	.125	3778	3726
1.8750	3.8125	.8268	.8640	.6250	.031	.031	386A	382A
1.8750	3.8750	.8268	.8640	.7018	.031	.031	386A	382
1.8750	3.8750	1.1875	1.1930	.9375	.140	.125	3779	3732
1.8750	3.8750	1.1875	1.1930	.9375	.250	.125	3778	3732
1.8750	3.9370	.8268	.8640	.7018	.031	.078	386A	383A
1.8750	3.9370	1.0000	.8640	.8750	.031	.046	386A	383X
1.8750	4.0000	1.2500	1.2500	1.0000	.140	.031	49580	49522
1.8750	4.0000	1.2500	1.2500	1.0000	.140	.125	49580	49520
1.8750	4.0000	1.2500	1.2500	1.0000	.250	.031	49581	49522
1.8750	4.0000	1.2500	1.2500	1.0000	.250	.125	49581	49520
1.8750	4.0000	1.3750	1.4200	1.0625	.062	.125	528A	522
1.8750	4.0000	1.3750	1.2500	1.1250	.140	.125	49580	49521
1.8750	4.0000	1.3750	1.4200	1.0625	.140	.125	528	522
1.8750	4.0000	1.3750	1.2500	1.1250	.250	.125	49581	49521
1.8750	4.0625	1.7188	1.7510	1.4375	.046	.125	5358	5335
1.8750	4.0625	1.7188	1.7510	1.4375	.140	.125	5361	5335
1.8750	4.1250	1.1875	1.1542	.9687	.031	.125	467	453X
1.8750	4.1250	1.1875	1.2188	.9375	.140	.031	45282	45221
1.8750	4.1250	1.1875	1.2188	.9375	.140	.125	45282	45220
1.8750	4.1250	1.1875	1.1542	.9687	.187	.125	463	453X
1.8750	4.1250	1.4375	1.4375	1.1250	.062	.031	59188	59413
1.8750	4.1250	1.4375	1.4375	1.1250	.062	.125	59188	59412
1.8750	4.1250	1.4375	1.4375	1.1250	.140	.125	59187	59412
1.8750	4.2500	1.0938	1.1542	.8750	.031	.031	467	453A
1.8750	4.2500	1.0938	1.1542	.8750	.187	.031	463	453A
1.8750	4.2500	1.4375	1.4375	1.1250	.062	.125	59188	59425
1.8750	4.2500	1.4375	1.4375	1.1250	.140	.125	59187	59425
1.8750	4.2500	1.4375	1.4550	1.1250	.140	.125	536	532X
1.8750	4.2900	1.3750	1.4375	1.0625	.062	.125	59188	59429
1.8750	4.2900	1.3750	1.4375	1.0625	.140	.125	59187	59429
1.8750	4.3307	1.0943	1.1542	1.0630	.031	.078	467	454
1.8750	4.3307	1.0943	1.1542	1.0630	.187	.078	463	454
1.8750	4.3750	1.5000	1.4550	1.1875	.140	.125	536	532A
1.8750	4.7260	1.6250	1.6250	1.2500	.140	.125	617	612A
1.8750	4.7500	1.6250	1.6250	1.2500	.140	.031	617	6125
1.8750	4.7500	1.6250	1.6250	1.2500	.140	.125	617	612
1.9060	3.6718	1.1875	1.1930	.9375	.140	.031	3781A	3730
1.9060	3.6718	1.1875	1.1930	.9375	.140	.125	3781A	3720
1.9060	3.7500	1.1875	1.1930	.9375	.140	.125	3781A	3726
1.9060	3.7500	1.1875	1.1563	.9063	.093	.125	HM804848	HM804810

TIMKEN BEARINGS—SINGLE-ROW STRAIGHT BORE—TYPE TS (Cont'd)

bore A	outside diam. B	width C	cone length D	cup length E	cone radius R	cup radius r	part number	
							cone	cup
1.9060	3.7500	1.1875	1.1563	.9063	.140	.125	HM804849	HM804810
1.9060	3.8750	1.1875	1.1930	.9375	.140	.125	3781A	3732
1.9375	3.5000	.8125	.8750	.6501	.031	.046	3655	362A
1.9375	3.5433	.7874	.8750	.7874	.031	.031	3655	363
1.9375	3.5433	.7874	.8750	.6250	.031	.078	3655	362
1.9375	3.6718	1.1875	1.1930	.9375	.140	.031	3781	3730
1.9375	3.6718	1.1875	1.1930	.9375	.140	.125	3781	3720
1.9375	3.7500	1.1875	1.1930	.9375	.140	.125	3781	3726
1.9375	3.8750	1.1875	1.1930	.9375	.140	.125	3781	3732
1.9375	4.0625	1.7188	1.7510	1.4375	.140	.125	5395	5335
1.9375	4.1250	1.4375	1.4375	1.1250	.140	.031	HM807044	HM807011
1.9375	4.1250	1.4375	1.4375	1.1250	.140	.125	HM807044	HM807010
1.9375	4.2500	1.4375	1.4550	1.1250	.140	.125	545	532X
1.9375	4.3750	1.5000	1.4550	1.1875	.140	.125	545	532A
1.9375	4.5000	1.7500	1.7500	1.3750	.140	.031	65390	65321
1.9375	4.5000	1.7500	1.7500	1.3750	.140	.125	65390	65320
1.9375	4.8125	1.7188	1.7230	1.4375	.046	.125	5562	5535
1.9670	5.0000	2.0000	2.0625	1.6250	.140	.125	6278	6220
1.9678	4.2500	1.4375	1.4550	1.1250	.140	.125	546	532X
1.9678	4.3750	1.5000	1.4550	1.1875	.140	.125	546	532A
1.9680	3.6250	.9688	1.0000	.7813	.093	.031	28579	28521
1.9680	3.6250	1.0937	1.0000	.9062	.093	.093	28579	28523
1.9680	3.6718	.8125	.8750	.5938	.093	.046	378A	374
1.9680	3.8125	.8750	.8750	.7500	.093	.062	378A	372A
1.9680	3.9370	.9842	.8750	.8592	.093	.078	378A	372
1.9685	3.5000	.8125	.8750	.6501	.078	.046	365	362A
1.9685	3.5000	.8125	.8750	.6501	.093	.046	366	362A
1.9685	3.5433	.7874	.8750	.7874	.078	.031	365	363
1.9685	3.5433	.7874	.8750	.6250	.078	.078	365	362
1.9685	3.5433	.7874	.8750	.7874	.093	.031	366	363
1.9685	3.5433	.7874	.8750	.6250	.093	.078	366	362
1.9685	4.1250	1.1875	1.1542	.9687	.093	.125	465	453X
1.9685	4.1250	1.1875	1.1542	.9687	.140	.125	465A	453X
1.9685	4.2500	1.0938	1.1542	.8750	.093	.031	465	453A
1.9685	4.2500	1.0938	1.1542	.8750	.140	.031	465A	453A
1.9685	4.3307	.8661	.8660	.7411	.031	.046	396	394A
1.9685	4.3307	.8661	.8660	.7411	.031	.125	396	394AS
1.9685	4.3307	1.0943	1.1542	1.0630	.093	.078	465	454
1.9685	4.3307	1.0943	1.1542	1.0630	.140	.078	465A	454
1.9685	4.3750	.8661	.8660	.7411	.031	.046	396	393AS
1.9685	4.3750	.8661	.8660	.7411	.031	.125	396	393A
1.9685	4.4375	.8750	.8660	.6250	.031	.125	396	393A
2.0000	3.0625	.5000	.5000	.3750	.062	.062	LL205449	LL205410
2.0000	3.1875	.7188	.7188	.5625	.062	.062	L305649	L305610
2.0000	3.3464	.6875	.6875	.5313	.140	.062	18790	18720
2.0000	3.3750	.7500	.7190	.5000	.060	.062	18200	18337
2.0000	3.5000	.6875	.6875	.5313	.140	.046	18790	18724
2.0000	3.5000	.8125	.8750	.6501	.062	.046	368A	362A
2.0000	3.5000	.8125	.6875	.6563	.140	.046	18790	18723
2.0000	3.5000	.8125	.8750	.6501	.140	.046	368A	362A
2.0000	3.5000	.8125	.8750	.6501	.203	.046	370A	362A
2.0000	3.5433	.7874	.8750	.7874	.062	.031	368	363
2.0000	3.5433	.7874	.8750	.6250	.062	.078	368	362
2.0000	3.5433	.7874	.8750	.7874	.140	.031	368A	363
2.0000	3.5433	.7874	.8750	.6250	.140	.078	368A	362
2.0000	3.5433	.7874	.8750	.7874	.203	.031	370A	363
2.0000	3.5433	.7874	.8750	.6250	.203	.078	370A	362
2.0000	3.6250	.9688	1.0000	.7813	.140	.031	28580	28521
2.0000	3.6250	1.0937	1.0000	.9062	.140	.093	28580	28523
2.0000	3.6718	.8125	.8750	.5938	.093	.046	375	374
2.0000	3.6718	.8125	.8750	.5938	.140	.046	3755	374
2.0000	3.6718	1.1875	1.1930	.9375	.031	.031	3775	3730
2.0000	3.6718	1.1875	1.1930	.9375	.031	.125	3775	3720
2.0000	3.6718	1.1875	1.1930	.9375	.140	.031	3780	3730
2.0000	3.6718	1.1875	1.1930	.9375	.140	.125	3780	3720
2.0000	3.6718	1.1875	1.1930	.9375	.250	.031	3784	3730
2.0000	3.6718	1.1875	1.1930	.9375	.250	.125	3784	3720
2.0000	3.7500	1.0938	1.1250	.8750	.140	.093	33889	33821
2.0000	3.7500	1.1875	1.1930	.9375	.031	.125	3775	3726
2.0000	3.7500	1.1875	1.1930	.9375	.140	.125	3780	3726
2.0000	3.7500	1.1875	1.1930	.9375	.250	.125	3784	3726
2.0000	3.8125	.8268	.8640	.6250	.031	.031	385AX	382A
2.0000	3.8125	.8268	.8640	.6250	.062	.031	385AS	382A
2.0000	3.8125	.8268	.8640	.6250	.093	.031	†385A	382A
2.0000	3.8125	.8268	.8640	.6250	.093	.062	375	372A
2.0000	3.8125	.8268	.8640	.6250	.140	.062	3755	372A
2.0000	3.8437	.9688	.9688	.7656	.140	.031	28678	28622
2.0000	3.8750	.8268	.8640	.7018	.031	.031	385AX	382
2.0000	3.8750	.8268	.8640	.7018	.062	.031	385AS	382
2.0000	3.8750	.8268	.8640	.7018	.093	.031	†385A	382
2.0000	3.8750	.9688	.9688	.7656	.140	.031	28678	28623
2.0000	3.8750	1.1875	1.1930	.9375	.031	.125	3775	3732
2.0000	3.8750	1.1875	1.1930	.9375	.140	.125	3780	3732
2.0000	3.8750	1.1875	1.1930	.9375	.250	.125	3784	3732
2.0000	3.9370	.8268	.8640	.7018	.031	.078	385AX	383A

bore A	outside diam. B	width C	cone length D	cup length E	cone radius R	cup radius r	part number	
							cone	cup
2.0000	3.9370	.8268	.8640	.7018	.062	.078	385AS	383A
2.0000	3.9370	.8268	.8640	.7018	.093	.078	†385A	383A
2.0000	3.9370	.9842	.8750	.8592	.093	.078	375	372
2.0000	3.9370	.9842	.8750	.8592	.140	.078	3755	372
2.0000	3.9370	1.0000	.8640	.8750	.031	.046	385AX	383X
2.0000	3.9370	1.0000	.8640	.8750	.062	.046	385AS	383X
2.0000	3.9370	1.0000	.8640	.8750	.093	.046	†385A	383X
2.0000	4.0000	1.2500	1.2500	1.0000	.140	.031	49585	49522
2.0000	4.0000	1.2500	1.2500	1.0000	.140	.125	49585	49520
2.0000	4.0000	1.3750	1.4200	1.0625	.031	.125	529	522
2.0000	4.0000	1.3750	1.2500	1.1250	.140	.125	49585	49525
2.0000	4.0000	1.3750	1.4200	1.0625	.140	.125	529X	522
2.0000	4.1250	1.1875	1.1542	.9687	.031	.125	455	453X
2.0000	4.1250	1.1875	1.2188	.9375	.093	.031	45285	45221
2.0000	4.1250	1.1875	1.2188	.9375	.093	.125	45285	45220
2.0000	4.1250	1.1875	1.1542	.9687	.140	.125	4555	453X
2.0000	4.1250	1.1875	1.2188	.9375	.250	.031	45284	45221
2.0000	4.1250	1.1875	1.2188	.9375	.250	.125	45284	45220
2.0000	4.1250	1.4375	1.4375	1.1250	.140	.031	59200	59413
2.0000	4.1250	1.4375	1.4375	1.1250	.140	.031	HM807046	HM807011
2.0000	4.1250	1.4375	1.4375	1.1250	.140	.125	HM807046	HM807010
2.0000	4.1250	1.4375	1.4375	1.1250	.140	.125	59200	59412
2.0000	4.1250	1.5625	1.5810	1.3125	.140	.125	4580	4535
2.0000	4.2500	1.0938	1.1542	.8750	.031	.031	455	453A
2.0000	4.2500	1.0938	1.1542	.8750	.140	.031	4555	453A
2.0000	4.2500	1.4375	1.4375	1.1250	.140	.125	59200	59425
2.0000	4.2500	1.4375	1.4550	1.1250	.140	.125	537	532X
2.0000	4.2900	1.3750	1.4375	1.0625	.140	.125	59200	59429
2.0000	4.3307	.8661	.8660	.7411	.031	.046	398	394A
2.0000	4.3307	.8661	.8660	.7411	.031	.125	398	394AS
2.0000	4.3307	1.0943	1.1542	1.0630	.031	.078	455	454
2.0000	4.3307	1.0943	1.1542	1.0630	.140	.078	4555	454
2.0000	4.3750	.8661	.8660	.7411	.031	.046	398	393AS
2.0000	4.3750	1.5000	1.4550	1.1875	.140	.125	537	532A
2.0000	4.3750	1.5313	1.5810	1.2813	.140	.125	4580	4536
2.0000	4.4375	.8750	.8660	.6250	.031	.125	398	393A
2.0000	4.4375	1.1875	1.1875	.9375	.031	.125	39573	39520
2.0000	4.4375	1.1875	1.1830	.9375	.140	.031	3975	3925
2.0000	4.4375	1.1875	1.1830	.9375	.140	.125	3975	3920
2.0000	4.4375	1.1875	1.1875	.9375	.140	.125	39575	39520
2.0000	4.4375	1.3125	1.1830	1.0625	.140	.125	3975	3926
2.0000	4.7260	1.6250	1.6250	1.2500	.140	.125	619	612A
2.0000	4.7500	1.6250	1.6250	1.2500	.140	.031	619	6125
2.0000	4.7500	1.6250	1.6250	1.2500	.140	.125	619	612
2.0000	4.8125	1.5000	1.4440	1.1875	.093	.125	555	553X
2.0000	4.8125	1.7188	1.7230	1.4375	.046	.125	5565	5535
2.0000	4.8750	1.5000	1.4440	1.1875	.093	.125	555	552A
2.0000	5.0000	1.7500	1.7500	1.3750	.140	.125	65200	65500
2.0000	5.0000	2.0000	2.0625	1.6250	.140	.125	6279	6220
2.0312	3.5000	.8125	.8750	.6501	.078	.046	3685	362A
2.0312	3.5433	.7874	.8750	.7874	.078	.031	3685	3685
2.0312	3.5433	.7874	.8750	.6250	.078	.078	3685	362
2.0312	3.6718	.8125	.8750	.5938	.062	.046	3775	374
2.0312	3.8125	.8750	.8750	.7500	.062	.062	3775	372A
2.0312	3.9370	.9842	.8750	.8592	.062	.078	3775	372
2.0625	3.6250	.9688	1.0000	.7813	.140	.031	28584	28521
2.0625	3.6250	1.0937	1.0000	.9062	.140	.093	28584	28523
2.0625	3.6718	.8125	.8750	.5938	.093	.046	377	374
2.0625	3.6718	.8125	.8750	.5938	.187	.046	377A	374
2.0625	3.6718	1.1875	1.1930	.9375	.093	.031	3767	3730
2.0625	3.6718	1.1875	1.1930	.9375	.093	.125	3767	3720
2.0625	3.7500	1.0938	1.1250	.8750	.062	.093	33890	33821
2.0625	3.7500	1.0938	1.1250	.8750	.140	.093	33891	33821
2.0625	3.7500	1.1875	1.1930	.9375	.093	.125	3767	3726
2.0625	3.8125	.8750	.8750	.7500	.093	.062	377	372A
2.0625	3.8125	.8750	.8750	.7500	.187	.062	377A	372A
2.0625	3.8750	1.1875	1.1930	.9375	.093	.125	3767	3732
2.0625	3.9370	.9842	.8750	.8592	.093	.078	377	372
2.0625	3.9370	.9842	.8750	.8592	.187	.078	377A	372
2.0625	4.1250	1.1875	1.1542	.9687	.062	.125	468	453X
2.0625	4.2500	1.0938	1.1542	.8750	.062	.031	468	453A
2.0625	4.2500	1.4375	1.4550	1.1250	.140	.125	540	532X
2.0625	4.3307	1.0943	1.1542	1.0630	.062	.078	468	454
2.0625	4.3750	1.5000	1.4550	1.1875	.140	.125	540	532A
2.1250	3.4375	.7188	.7188	.5625	.062	.062	L507945	L507910
2.1250	3.7500	1.0938	1.1250	.8750	.062	.093	33895	33821
2.1250	3.8125	.8268	.8640	.6250	.031	.031	389A	382A
2.1250	3.8125	.8268	.8640	.6250	.062	.031	389AS	382A
2.1250	3.8750	.8268	.8640	.7018	.031	.031	389A	382
2.1250	3.8750	.8268	.8640	.7018	.062	.031	389AS	382
2.1250	3.9370	.8268	.8640	.7018	.031	.078	389A	383A
2.1250	3.9370	.8268	.8640	.7018	.062	.078	389AS	383A
2.1250	3.9370	1.0000	.8640	.8750	.031	.046	389A	383X
2.1250	3.9370	1.0000	.8640	.8750	.062	.046	389AS	383X

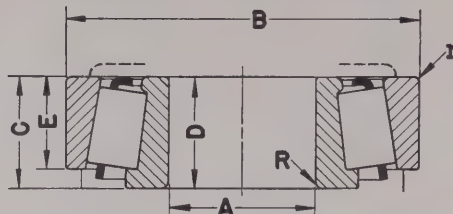


TIMKEN™ BEARINGS

REGISTERED TRADE MARK
THE TIMKEN ROLLER BEARING COMPANY

single-row straight bore – type TS

ARRANGED BY BORE DIAMETERS



AVAILABLE IN
PRECISION
TOLERANCES

Class No. 4

Class No. 2

Class No. 3

Class No. 0

See page 122

(Continued)

bore A	outside diam. B	width C	cone length D	cup length E	cone radius R	cup radius r	part number	
							cone	cup
2.1250	4.1250	1.1875	1.2188	.9375	.031	.031	45287	45221
2.1250	4.1250	1.1875	1.2188	.9375	.031	.125	45287	45220
2.1250	4.1250	1.1875	1.1542	.9687	.140	.125	456	453X
2.1250	4.1250	1.4375	1.4375	1.1250	.140	.031	HM807049	HM807011
2.1250	4.1250	1.4375	1.4375	1.1250	.140	.125	HM807049	HM807010
2.1250	4.1250	1.5625	1.5810	1.3125	.140	.125	4595	4535
2.1250	4.2500	1.0938	1.1542	.8750	.140	.031	456	453A
2.1250	4.2500	1.4375	1.4550	1.1250	.140	.125	539	532X
2.1250	4.2500	1.4375	1.4550	1.1250	.218	.125	539A	532X
2.1250	4.3307	1.0943	1.1542	1.0630	.140	.078	456	454
2.1250	4.3750	1.5000	1.4550	1.1875	.140	.125	539	532A
2.1250	4.3750	1.5000	1.4550	1.1875	.218	.125	539A	532A
2.1250	4.3750	1.5313	1.5810	1.2813	.140	.125	4595	4536
2.1250	4.7260	1.6250	1.6250	1.2500	.031	.125	624	612A
2.1250	4.7260	1.6250	1.6250	1.2500	.140	.125	621	612A
2.1250	4.7500	1.6250	1.6250	1.2500	.031	.031	624	6125
2.1250	4.7500	1.6250	1.6250	1.2500	.031	.125	624	612
2.1250	4.7500	1.6250	1.2500	1.2500	.140	.031	621	6125
2.1250	4.7500	1.6250	1.2500	1.2500	.140	.125	621	612
2.1250	4.8125	1.5000	1.4440	1.1875	.140	.125	5575	553X
2.1250	4.8125	1.7188	1.7230	1.4375	.046	.125	5577	5535
2.1250	4.8125	1.7188	1.7230	1.4375	.140	.125	5578	5535
2.1250	4.8750	1.5000	1.4440	1.1875	.140	.125	5575	552A
2.1250	5.0000	1.7500	1.7500	1.3750	.140	.125	65212	65500
2.1250	5.0000	2.0000	2.0625	1.6250	.140	.125	6280	6220
2.1250	5.1250	1.6250	1.6250	1.2500	.140	.125	636	633
2.1250	5.3750	1.6250	1.6250	1.2500	.140	.125	636	632
2.1580	5.3447	2.1250	2.2050	1.7500	.031	.125	6380	6320
2.1650	4.1250	1.1875	1.1542	.9687	.093	.125	466	453X
2.1650	4.2500	1.0938	1.1542	.8750	.093	.031	466	453A
2.1650	4.3307	1.0943	1.1542	1.0630	.093	.078	466	454
2.1650	5.3447	2.1250	2.2050	1.7500	.140	.125	6381	6320
2.1653	3.8125	.8268	.8640	.6250	.093	.031	385	382A
2.1653	3.8125	.8268	.8640	.6250	.140	.031	385X	382A
2.1653	3.8750	.8268	.8640	.7018	.093	.031	385	382
2.1653	3.8750	.8268	.8640	.7018	.140	.031	385X	382
2.1653	3.9370	.8268	.8640	.7018	.093	.078	385	383A
2.1653	3.9370	.8268	.8640	.7018	.140	.078	385X	383A
2.1653	3.9370	1.0000	.8640	.8750	.093	.046	385	383X
2.1653	3.9370	1.0000	.8640	.8750	.140	.046	385X	383X
2.1653	4.7244	1.1418	1.1420	.9230	.031	.125	475	472A
2.1653	4.7244	1.1730	1.1420	.9542	.031	.078	475	472
2.1653	4.8750	1.1875	1.1420	.9687	.031	.125	475	472X
2.1656	4.7260	1.6250	1.6250	1.2500	.031	.125	622A	612A
2.1656	4.7500	1.6250	1.6250	1.2500	.031	.031	622A	6125
2.1656	4.7500	1.6250	1.6250	1.2500	.031	.125	622A	612
2.1875	3.8437	.9688	.9688	.7656	.140	.031	28680	28622
2.1875	3.8750	.9688	.9688	.7656	.140	.031	28680	28623
2.1875	4.1250	1.1875	1.1542	.9687	.093	.125	4665	453X
2.1875	4.2500	1.0938	1.1542	.8750	.093	.031	4665	453A
2.1875	4.3307	1.0943	1.1542	1.0630	.093	.078	4665	4535
2.1875	4.8125	1.7188	1.7230	1.4375	.046	.125	5566	555
2.1875	5.0000	1.4375	1.4375	1.0625	.140	.062	HM813840	HM813811
2.1875	5.0000	1.4375	1.4375	1.0625	.140	.125	HM813840	HM813810
2.1880	3.8125	.8268	.8640	.6250	.093	.031	389	382A
2.1880	3.8750	.8268	.8640	.7018	.093	.031	389	382
2.1880	3.9370	.8268	.8640	.7018	.093	.078	389	383A
2.1880	3.9370	1.0000	.8640	.8750	.093	.046	389	383X
2.2500	3.4375	.7188	.7188	.5625	.062	.062	L507949	L507910
2.2500	3.8125	.8268	.8640	.6250	.031	.031	3875	382A
2.2500	3.8125	.8268	.8640	.6250	.093	.031	387	382A
2.2500	3.8125	.8268	.8640	.6250	.140	.031	387A	382A
2.2500	3.8125	.8268	.8640	.6250	.203	.031	387A5	382A
2.2500	3.8437	.9688	.9688	.7656	.140	.031	28682	28622
2.2500	3.8750	.8268	.8640	.7018	.031	.031	3875	382
2.2500	3.8750	.8268	.8640	.7018	.093	.031	387	382
2.2500	3.8750	.8268	.8640	.7018	.140	.031	387A	382
2.2500	3.8750	.8268	.8640	.7018	.203	.031	387A5	382

bore A	outside diam. B	width C	cone length D	cup length E	cone radius R	cup radius r	part number	
							cone	cup
2.2500	3.8750	.9688	.9688	.7656	.140	.031	28682	28623
2.2500	3.9370	.8268	.8640	.7018	.031	.078	3875	383A
2.2500	3.9370	.8268	.8640	.7018	.093	.078	387	383A
2.2500	3.9370	.8268	.8640	.7018	.140	.078	387A	383A
2.2500	3.9370	.8268	.8640	.7018	.203	.078	387A5	383A
2.2500	3.9370	1.0000	.8640	.8750	.031	.046	3875	383X
2.2500	3.9370	1.0000	.8640	.8750	.093	.046	387	383X
2.2500	3.9370	1.0000	.8640	.8750	.140	.046	387A	383X
2.2500	3.9370	1.0000	.8640	.8750	.203	.046	387A5	383X
2.2500	4.1250	1.1875	1.2188	.9375	.031	.031	45289	45221
2.2500	4.1250	1.1875	1.2188	.9375	.031	.125	45289	45220
2.2500	4.1250	1.1875	1.2188	.9375	.093	.031	45290	45221
2.2500	4.1250	1.1875	1.1542	.9687	.093	.125	462	453X
2.2500	4.1250	1.1875	1.2188	.9375	.093	.125	45290	45220
2.2500	4.1250	1.1875	1.1542	.9687	.140	.125	469	453X
2.2500	4.1250	1.1875	1.2188	.9375	.250	.031	45291	45221
2.2500	4.1250	1.1875	1.2188	.9375	.250	.125	45291	45220
2.2500	4.2500	1.0938	1.1542	.8750	.093	.031	462	453A
2.2500	4.2500	1.0938	1.1542	.8750	.140	.031	469	453A
2.2500	4.3307	.8661	.8660	.7411	.093	.046	390	394A
2.2500	4.3307	.8661	.8660	.7411	.093	.125	390	394A5
2.2500	4.3307	1.0943	1.1542	1.0630	.093	.078	462	454
2.2500	4.3307	1.0943	1.1542	1.0630	.140	.078	469	454
2.2500	4.3750	.8661	.8660	.7411	.093	.046	390	393A5
2.2500	4.4375	.8750	.8660	.6250	.093	.125	390	393A
2.2500	4.4375	1.1875	1.1830	.9375	.140	.031	3979	3925
2.2500	4.4375	1.1875	1.1830	.9375	.140	.125	3979	3920
2.2500	4.4375	1.1875	1.1875	.9375	.140	.125	39580	39520
2.2500	4.4375	1.1875	1.1875	.9375	.312	.125	39581	39520
2.2500	4.4375	1.3125	1.1830	1.0625	.140	.125	3979	3926
2.2500	4.6250	1.1875	1.1875	.9375	.140	.031	33225	33461
2.2500	4.6250	1.1875	1.1875	.9375	.140	.125	33225	33462
2.2500	4.7244	1.1730	1.1875	.9230	.140	.031	33225	33472
2.2500	4.7260	1.6250	1.6250	1.2500	.140	.125	623	612A
2.2500	4.7260	1.6250	1.6250	1.2500	.250	.125	623A	612A
2.2500	4.7500	1.6250	1.6250	1.2500	.140	.031	623	6125
2.2500	4.7500	1.6250	1.6250	1.2500	.140	.125	623	612
2.2500	4.7500	1.6250	1.6250	1.2500	.250	.031	623A	6125
2.2500	4.7500	1.6250	1.6250	1.2500	.250	.125	623A	612
2.2500	4.8125	1.5000	1.4440	1.1875	.140	.125	5555	553X
2.2500	4.8125	1.5000	1.4440	1.1875	.312	.125	5555A	553X
2.2500	4.8750	1.5000	1.4440	1.1875	.140	.125	5555	552A
2.2500	4.8750	1.5000	1.4440	1.1875	.312	.125	5555A	552A
2.2500	5.0000	1.7500	1.7500	1.3750	.140	.125	65225	65500
2.2500	5.1250	1.6250	1.6250	1.2500	.140	.125	635	633
2.2500	5.3447	1.2125	2.2050	1.7500	.031	.125	6387	6320
2.2500	5.3447	1.2125	2.2050	1.7500	.171	.125	6375	6320
2.2500	5.3750	1.6250	1.6250	1.2500	.140	.125	635	632
2.2500	5.8750	1.2125	2.1350	1.7500	.140	.031	6455	6420A
2.2500	5.8750	1.2125	2.1350	1.7500	.140	.125	6455	6420
2.2500	5.8750	1.2125	2.1350	1.7500	.265	.031	6465	6420A
2.2500	5.8750	1.2125	2.1350	1.7500	.265	.125	6465	6420
2.2650	3.8125	.8268	.8640	.6250	.140	.031	388A	382A
2.2650	3.8750	.8268	.8640	.7018	.140	.031	388A	382
2.2650	3.9370	.8268	.8640	.7018	.140	.078	388A	383A
2.2650	3.9370	1.0000	.8640	.8750	.140	.046	388A	383X
2.3125	4.4375	1.1875	1.1830	.9375	.140	.031	3981	3925
2.3125	4.4375	1.1875	1.1830	.9375	.140	.125	3981	3920
2.3125	4.4375	1.3125	1.1830	1.0625	.140	.125	3981	3926
2.3125	5.0000	1.7500	1.7500	1.3750	.140	.125	65231	65500
2.3437	4.4375	1.1875	1.1830	.9375	.062	.031	3978	3925
2.3437	4.4375	1.1875	1.1830	.9375	.062	.125	3978	3920
2.3437	4.4375	1.3125	1.1830	1.0625	.062	.125	3978	3926
2.3575	5.0000	1.7500	1.7500	1.3750	.140	.125	65235	65500
2.3613	3.9370	1.0000	1.0000	.7813	.140	.125	28980	28921
2.3613	4.0000	1.0000	1.0000	.7813	.140	.125	28980	28920
2.3616	4.1250	.8438	.8661	.6250	.093	.080	39236	39412
2.3616	4.3330	.8661	.8661	.6786	.093	.093	39236	39433

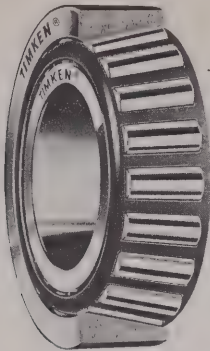
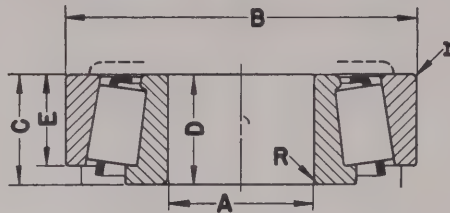
Continued next page

NEED HELP ON BEARINGS—CALL US

TIMKEN BEARINGS—SINGLE-ROW STRAIGHT BORE—TYPE TS (Cont'd)

bore A	outside diam. B	width C	cone length D	cup length E	cone radius R	cup radius r	part number	
							cone	cup
2.3616	5.3447	2.1250	2.2050	1.7500	.140	.125	6391	6320
2.3622	4.2500	1.0000	1.0000	.7500	.031	.031	29582	29522
2.3622	4.2500	1.0000	1.0000	.7500	.031	.125	29582	29520
2.3622	4.2500	1.0000	1.0000	.7500	.140	.031	29580	29522
2.3622	4.2500	1.0000	1.0000	.7500	.140	.125	29580	29520
2.3622	4.3307	.8661	.8660	.7411	.031	.046	397	394A
2.3622	4.3307	.8661	.8660	.7411	.031	.125	397	394AS
2.3622	4.3307	1.0000	1.0000	.7500	.031	.046	29582	29521
2.3622	4.3307	1.0000	1.0000	.7500	.140	.046	29580	29521
2.3622	4.3750	.8661	.8660	.7411	.031	.046	397	393AS
2.3622	4.4375	.8750	.8660	.6250	.031	.125	397	393A
2.3622	4.4375	1.1875	1.1830	.9375	.140	.031	3977	3925
2.3622	4.4375	1.1875	1.1830	.9375	.140	.125	3977	3920
2.3622	4.4375	1.3125	1.1830	1.0625	.140	.125	3977	3926
2.3622	4.7244	1.1418	1.1420	.9230	.062	.125	476A	472A
2.3622	4.7244	1.1418	1.1420	.9230	.078	.125	476	472A
2.3622	4.7244	1.1730	1.1420	.9542	.062	.078	476A	472
2.3622	4.7244	1.1730	1.1420	.9542	.078	.078	476	472
2.3622	4.8750	1.1875	1.1420	.9687	.062	.125	476A	472X
2.3622	4.8750	1.1875	1.1420	.9687	.078	.125	476	472X
2.3750	3.9370	1.0000	1.0000	.7813	.140	.125	28985	28921
2.3750	4.0000	1.0000	1.0000	.7813	.140	.125	28985	28920
2.3750	4.4375	1.1875	1.1830	.9375	.140	.031	3980	3925
2.3750	4.4375	1.1875	1.1830	.9375	.140	.125	3980	3920
2.3750	4.4375	1.3125	1.1830	1.0625	.140	.125	3980	3926
2.3750	4.8125	1.5000	1.4440	1.1875	.093	.125	558	553X
2.3750	4.8125	1.5000	1.4440	1.1875	.140	.125	558A	553X
2.3750	4.8125	1.5000	1.5100	1.1700	.312	.062	HM212044	HM212010
2.3750	4.8125	1.5000	1.4440	1.1875	.312	.125	557A	553X
2.3750	4.8125	1.5000	1.5100	1.1700	.312	.125	HM212044	HM212011
2.3750	4.8125	1.7188	1.7230	1.4375	.031	.125	5582	5535
2.3750	4.8125	1.7188	1.7230	1.4375	.140	.125	5583	5535
2.3750	4.8750	1.5000	1.4440	1.1875	.093	.125	558	552A
2.3750	4.8750	1.5000	1.4440	1.1875	.140	.125	558A	552A
2.3750	4.8750	1.5000	1.4440	1.1875	.312	.125	557A	552A
2.3750	5.0000	1.4375	1.4375	1.0625	.140	.062	HM813841	HM813811
2.3750	5.0000	1.4375	1.4375	1.0625	.140	.125	HM813841	HM813810
2.3750	5.0000	1.7500	1.7500	1.3750	.140	.125	65237	65500
2.3750	5.1250	1.6250	1.6250	1.2500	.140	.125	637	633
2.3750	5.3447	2.1250	2.2050	1.7500	.140	.125	6376	6320
2.3750	5.3750	1.6250	1.6250	1.2500	.140	.125	637	632
2.3750	5.3750	1.8125	1.8125	1.4375	.140	.125	H715332	H715310
2.3750	5.5000	1.8125	1.8125	1.4375	.140	.125	H715332	H715310
2.4375	4.3307	.8661	.8660	.7411	.031	.046	392	394A
2.4375	4.3307	.8661	.8660	.7411	.031	.125	392	394AS
2.4375	4.3750	.8661	.8660	.7411	.031	.046	392	393AS
2.4375	4.4375	.8750	.8660	.6250	.031	.125	392	393A
2.4375	4.8125	1.5000	1.4440	1.1875	.140	.125	554	553X
2.4375	4.8750	1.5000	1.4440	1.1875	.140	.125	554	552A
2.5000	3.6250	.5313	.5000	.3750	.062	.062	LL510749	LL510710
2.5000	3.7188	.7500	.7500	.5938	.062	.062	L610549	L610510
2.5000	4.1250	.8438	.8661	.6250	.080	.080	39250	39412
2.5000	4.2500	1.0000	1.0000	.7500	.062	.031	29586	29522
2.5000	4.2500	1.0000	1.0000	.7500	.062	.125	29586	29520
2.5000	4.2500	1.0000	1.0000	.7500	.140	.031	29585	29522
2.5000	4.2500	1.0000	1.0000	.7500	.140	.125	29585	29520
2.5000	4.3307	.8661	.8660	.7411	.062	.046	390A	394A
2.5000	4.3307	.8661	.8660	.7411	.062	.125	390A	394AS
2.5000	4.3307	.8661	.8660	.7411	.140	.046	395	394A
2.5000	4.3307	.8661	.8660	.7411	.140	.125	395	394AS
2.5000	4.3307	1.0000	1.0000	.7500	.062	.046	29586	29521
2.5000	4.3307	1.0000	1.0000	.7500	.140	.046	29585	29521
2.5000	4.3330	.8661	.8661	.6786	.080	.093	39250	39433
2.5000	4.3750	.8661	.8660	.7411	.062	.046	390A	393AS
2.5000	4.3750	.8661	.8660	.7411	.140	.046	395	393AS
2.5000	4.4375	.8750	.8660	.6250	.062	.125	390A	393A
2.5000	4.4375	.8750	.8660	.6250	.140	.125	395	393A
2.5000	4.4375	1.1875	1.1830	.9375	.140	.031	3982	3925
2.5000	4.4375	1.1875	1.1830	.9375	.140	.125	3982	3920
2.5000	4.4375	1.3125	1.1830	1.0625	.140	.125	3982	3926
2.5000	4.6250	1.1875	1.1875	.9375	.031	.031	33251	33461
2.5000	4.6250	1.1875	1.1875	.9375	.031	.125	33251	33462
2.5000	4.7244	1.1418	1.1420	.9230	.031	.125	477	472A
2.5000	4.7244	1.1418	1.1420	.9230	.140	.125	483	472A
2.5000	4.7244	1.1730	1.1875	.9230	.031	.031	33251	33472
2.5000	4.7244	1.1730	1.1420	.9542	.031	.078	477	472
2.5000	4.7244	1.1730	1.1420	.9542	.040	.078	483	472
2.5000	4.8125	1.5000	1.5100	1.1700	.140	.062	HM212046	HM212010
2.5000	4.8125	1.5000	1.4440	1.1875	.140	.125	559	553X
2.5000	4.8125	1.5000	1.5100	1.1700	.140	.125	HM212046	HM212011
2.5000	4.8125	1.5000	1.5100	1.1700	.281	.062	HM212047	HM212010
2.5000	4.8125	1.5000	1.5100	1.1700	.281	.125	HM212047	HM212011
2.5000	4.8125	1.7188	1.7230	1.4375	.140	.125	5584	5535

bore A	outside diam. B	width C	cone length D	cup length E	cone radius R	cup radius r	part number	
							cone	cup
2.5000	4.8125	1.7188	1.7230	1.4375	.203	.125	5564	5535
2.5000	4.8750	1.1875	1.1420	.9687	.031	.125	477	472X
2.5000	4.8750	1.1875	1.1420	.9687	.140	.125	483	472X
2.5000	4.8750	1.5000	1.4440	1.1875	.140	.125	559	552A
2.5000	5.0000	1.4375	1.4375	1.0625	.140	.062	HM813842	HM813811
2.5000	5.0000	1.4375	1.4240	1.1250	.140	.125	565	563
2.5000	5.0000	1.4375	1.4375	1.0625	.140	.125	HM813842	HM813810
2.5000	5.0000	1.4375	1.4240	1.1250	.250	.125	5655	563
2.5000	5.1250	1.6250	1.6250	1.2500	.140	.125	639	633
2.5000	5.3447	2.1250	2.2050	1.7500	.171	.125	6382	6320
2.5000	5.3750	1.6250	1.6250	1.2500	.140	.125	639	632
2.5000	5.3750	1.6250	1.6250	1.2500	.140	.125	H414235	H414210
2.5000	5.3750	1.8125	1.8125	1.4375	.140	.125	H715336	H715311
2.5000	5.5000	1.8125	1.8125	1.4375	.140	.125	H715336	H715310
2.5000	5.8750	2.1250	2.1350	1.7500	.140	.031	6475	6420A
2.5000	5.8750	2.1250	2.1350	1.7500	.140	.125	6475	6420
2.5000	5.9090	1.7500	1.8375	1.4375	.140	.125	7455	742
2.5575	5.8750	2.1250	2.1350	1.7500	.140	.031	6464	6420A
2.5575	5.8750	2.1250	2.1350	1.7500	.140	.125	6464	6420
2.5575	5.9090	1.7500	1.8375	1.4375	.140	.125	7475	742
2.5576	5.0000	1.4375	1.4240	1.1250	.140	.125	569	563
2.5585	4.2500	1.0000	1.0000	.7500	.140	.031	29588	29522
2.5585	4.2500	1.0000	1.0000	.7500	.140	.125	29588	29520
2.5585	4.3307	1.0000	1.0000	.7500	.140	.046	29588	29521
2.5591	4.7244	1.1418	1.1420	.9230	.093	.125	478	472A
2.5591	4.7244	1.1730	1.1420	.9542	.093	.078	478	472
2.5591	4.8750	1.1875	1.1420	.9687	.093	.125	478	472X
2.5625	5.3447	2.1250	2.2050	1.7500	.140	.125	6379	6320
2.5625	5.3750	1.8125	1.8125	1.4375	.140	.125	H715340	H715311
2.5625	5.5000	1.8125	1.8125	1.4375	.140	.125	H715340	H715310
2.5938	4.8125	1.7188	1.7230	1.4375	.140	.125	5595	5535
2.6250	4.2500	1.0000	1.0000	.7500	.140	.031	29590	29522
2.6250	4.2500	1.0000	1.0000	.7500	.140	.125	29590	29520
2.6250	4.3307	.8661	.8660	.7411	.031	.046	395A	394A
2.6250	4.3307	.8661	.8660	.7411	.031	.125	395A	394AS
2.6250	4.3307	.8661	.8660	.7411	.140	.046	3955	394A
2.6250	4.3307	.8661	.8660	.7411	.140	.125	3955	394AS
2.6250	4.3307	1.0000	1.0000	.7500	.140	.046	29590	29521
2.6250	4.3750	.8661	.8660	.7411	.031	.046	395A	393AS
2.6250	4.3750	.8661	.8660	.7411	.140	.046	3955	393AS
2.6250	4.4375	.8750	.8660	.6250	.031	.125	395A	393A
2.6250	4.4375	.8750	.8660	.6250	.140	.125	3955	393A
2.6250	4.4375	1.1875	1.1830	.9375	.140	.031	3984	3925
2.6250	4.4375	1.1875	1.1830	.9375	.140	.125	3984	3920
2.6250	4.4375	1.1875	1.1875	.9375	.140	.125	39590	39520
2.6250	4.4375	1.1875	1.1830	.9375	.218	.031	3994	3925
2.6250	4.4375	1.1875	1.1830	.9375	.218	.125	3994	3920
2.6250	4.4375	1.3125	1.1830	1.0625	.140	.125	3984	3926
2.6250	4.4375	1.3125	1.1830	1.0625	.218	.125	3994	3926
2.6250	4.6250	1.1875	1.1875	.9375	.140	.031	33262	33461
2.6250	4.6250	1.1875	1.1875	.9375	.140	.125	33262	33462
2.6250	4.6250	1.1875	1.1875	.9375	.218	.031	33261	33461
2.6250	4.6250	1.1875	1.1875	.9375	.218	.125	33261	33462
2.6250	4.7244	1.1418	1.1420	.9230	.093	.125	479	472A
2.6250	4.7244	1.1730	1.1420	.9542	.093	.078	479	472
2.6250	4.7244	1.1730	1.1875	.9230	.140	.031	33262	33472
2.6250	4.7244	1.1730	1.1875	.9230	.218	.031	33261	33472
2.6250	4.8125	1.5000	1.5100	1.1700	.140	.062	HM212049	HM212010
2.6250	4.8125	1.5000	1.4440	1.1875	.140	.125	560	553X
2.6250	4.8125	1.5000	1.5100	1.1700	.140	.125	HM212049	HM212011
2.6250	4.8750	1.1875	1.1420	.9687	.093	.125	479	472X
2.6250	4.8750	1.5000	1.4440	1.1875	.140	.125	560	552A
2.6250	5.0000	1.4375	1.4375	1.0625	.140	.062	HM813844	HM813811
2.6250	5.0000	1.4375	1.4375	1.0625	.140	.125	HM813844	HM813810
2.6250	5.1250	1.6250	1.6250	1.2500	.140	.125	641	633
2.6250	5.3447	2.1250	2.2050	1.7500	.171	.125	6382	6320
2.6250	5.3447	2.1250	2.2050	1.7500	.250	.125	6389	6320
2.6250	5.3750	1.6250	1.6250	1.2500	.140	.125	641	632
2.6250	5.3750	1.6250	1.6250	1.2500	.140	.125	H414242	H414210
2.6250	5.3750	1.8125	1.8125	1.4375	.140	.125	H715341	H715311
2.6250	5.5000	1.8125	1.8125	1.4375	.140	.125	H715341	H715310
2.6875	4.3307	.8661	.8660	.7411	.093	.046	399A	394A
2.6875	4.3307	.8661	.8660	.7411	.093	.125	399A	394AS
2.6875	4.3307	.8661	.8660	.7411	.203	.046	399AS	394A
2.6875	4.3307	.8661	.8660	.7411	.203	.125	399AS	394AS
2.6875	4.3750	.8661	.8660	.7411	.093	.046	399A	392AS
2.6875	4.3750	.8661	.8660	.7411	.203	.046	399AS	392AS
2.6875	4.4375	.8750	.8660	.6250	.093	.125	399A	393A
2.6875	4.4375	.8750	.8660	.6250	.203	.125	399AS	393A
2.6875	4.6250	1.1875	1.1875	.9375	.140	.031	33269	33461
2.6875	4.6250	1.1875	1.1875	.9375	.140	.125	33269	33462
2.6875	4.7244	1.1418	1.1420	.9230	.140	.125	480	472A
2.6875	4.7244	1.1730	1.1875	.9230	.140	.031	33269	33472
2.6875	4.7244	1.1730	1.1420	.9542	.140	.078	480	472

**TIMKEN® BEARINGS**REGISTERED TRADE MARK
THE TIMKEN ROLLER BEARING COMPANY**single-row straight bore – type TS****ARRANGED BY BORE DIAMETERS****AVAILABLE IN
PRECISION
TOLERANCES**

Class No. 4

Class No. 2

Class No. 3

Class No. 0

See page 122

(Continued)

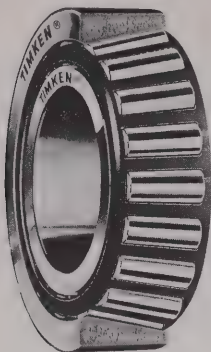
bore A	outside diam. B	width C	cone length D	cup length E	cone radius R	cup radius r	part number	
							cone	cup
2.6875	4.8125	1.5000	1.4440	1.1875	.140	.125	5605	553X
2.6875	4.8750	1.1875	1.1420	.9687	.140	.125	480	472X
2.6875	4.8750	1.5000	1.4440	1.1875	.140	.125	5605	552A
2.6875	5.0000	1.4375	1.4240	1.1250	.140	.125	570	563
2.6875	5.1250	1.6250	1.6250	1.2500	.140	.125	642	633
2.6875	5.3750	1.6250	1.6250	1.2500	.140	.125	642	632
2.6875	5.3750	1.6250	1.6250	1.2500	.140	.125	H414245	H414210
2.7500	3.8750	.5313	.5313	.3750	.062	.062	LL713049	LL713010
2.7500	4.0000	.7500	.7500	.5938	.062	.062	L713049	L713010
2.7500	4.4375	.8750	.8660	.6250	.062	.031	LM613449	LM613410
2.7500	4.4375	1.0000	1.0000	.7500	.062	.125	29675	29620
2.7500	4.6250	1.1875	1.1875	.9375	.140	.031	33275	33461
2.7500	4.6250	1.1875	1.1875	.9375	.140	.125	33275	33462
2.7500	4.7244	1.1418	1.1420	.9230	.140	.125	482	472A
2.7500	4.7244	1.1730	1.1875	.9230	.140	.031	33275	33472
2.7500	4.7244	1.1730	1.1420	.9542	.140	.078	482	472
2.7500	4.7244	1.2813	1.2813	1.0313	.140	.125	47487	47420
2.7500	4.7500	1.2813	1.2813	1.0313	.140	.031	47487	47423
2.7500	4.8750	1.1875	1.1420	.9687	.140	.125	482	472X
2.7500	5.0000	1.4375	1.4240	1.1250	.031	.125	5665	563
2.7500	5.0000	1.4375	1.4375	1.0625	.140	.062	HM813846	HM813811
2.7500	5.0000	1.4375	1.4240	1.1250	.140	.125	566	563
2.7500	5.0000	1.4375	1.4375	1.0625	.140	.125	HM813846	HM813810
2.7500	5.1250	1.6250	1.6250	1.2500	.140	.125	643	633
2.7500	5.3750	1.6250	1.6250	1.2500	.140	.125	643	632
2.7500	5.3750	1.6250	1.6250	1.2500	.140	.125	655	653
2.7500	5.8750	1.6250	1.6250	1.2500	.140	.125	655	652A
2.7500	5.8750	2.1250	2.1350	1.7500	.203	.031	6454	6420A
2.7500	5.8750	2.1250	2.1350	1.7500	.203	.125	6454	6420
2.7500	5.8750	2.1250	2.1350	1.7500	.250	.031	6484	6420A
2.7500	5.8750	2.1250	2.1350	1.7500	.250	.125	6484	6420
2.7500	5.9090	1.7500	1.8375	1.4375	.140	.125	745A	742
2.7500	5.9090	1.7500	1.8375	1.4375	.203	.125	744A	742
2.7500	6.0000	1.6250	1.6250	1.2500	.140	.125	655	652
2.7500	6.2500	1.2500	2.2190	1.6250	.140	.125	835	832
2.7500	4.7812	.9688	.9060	.6875	.080	.080	34274	34478
2.7500	5.0000	1.0625	.9060	.7812	.080	.125	34274	34500
2.7500	4.7244	1.1418	1.1420	.9230	.080	.125	484	472A
2.7500	4.7244	1.1730	1.1420	.9542	.080	.078	484	472
2.7500	4.7812	.9688	.9060	.6875	.080	.080	34275	34478
2.7500	4.8750	1.1875	1.1420	.9687	.080	.125	484	472X
2.7500	5.0000	1.0625	.9060	.7812	.080	.125	34275	34500
2.7810	4.4375	1.0000	1.0000	.7500	.046	.125	29680	29620
2.7810	4.4375	1.0000	1.0000	.7500	.140	.125	29681	29620
2.8125	4.6250	1.1875	1.1875	.9375	.140	.031	33281	33461
2.8125	4.6250	1.1875	1.1875	.9375	.140	.125	33281	33462
2.8125	4.7244	1.1730	1.1875	.9230	.140	.031	33281	33472
2.8125	4.7244	1.2813	1.2813	1.0313	.140	.125	47490	47420
2.8125	4.7500	1.2813	1.2813	1.0313	.140	.031	47490	47423
2.8125	5.0000	1.4375	1.4375	1.0625	.140	.062	HM813849	HM813811
2.8125	5.0000	1.4375	1.4240	1.1250	.140	.125	567A	563
2.8125	5.0000	1.4375	1.4375	1.0625	.140	.125	HM813849	HM813810
2.8125	5.0000	1.4375	1.4240	1.1250	.250	.125	5675	563
2.8125	5.1250	1.6250	1.6250	1.2500	.140	.125	644	633
2.8125	5.1250	1.6250	1.6250	1.2500	.250	.125	645	633
2.8125	5.2500	1.1875	1.1720	.8750	.140	.125	4955	492A
2.8125	5.2500	1.3125	1.3125	1.0313	.140	.125	47675	47620
2.8125	5.3750	1.1875	1.1720	.8750	.140	.125	4955	493
2.8125	5.3750	1.6250	1.6250	1.2500	.140	.125	644	632
2.8125	5.3750	1.6250	1.6250	1.2500	.140	.125	H414249	H414210
2.8125	5.3750	1.6250	1.6250	1.2500	.250	.125	645	632
2.8125	5.3750	1.8125	1.8125	1.4375	.140	.125	H715345	H715311
2.8125	5.5000	1.8125	1.8125	1.4375	.140	.125	H715345	H715310
2.8750	4.4375	1.0000	1.0000	.7500	.140	.125	29685	29620
2.8750	4.6250	1.1875	1.1875	.9375	.140	.031	33287	33461
2.8750	4.6250	1.1875	1.1875	.9375	.140	.125	33287	33462
2.8750	4.7244	1.1730	1.1875	.9230	.140	.031	33287	33472
2.8750	4.9375	1.0000	1.0000	.7813	.140	.062	27680	27620

bore A	outside diam. B	width C	cone length D	cup length E	cone radius R	cup radius r	part number	
							cone	cup
2.8750	5.0000	1.1875	1.2205	.8750	.140	.125	42683	42620
2.8750	5.0000	1.4375	1.4240	1.1250	.140	.125	567	563
2.8750	5.5115	1.4375	1.4212	1.1250	.140	.125	576	572
2.8750	5.7500	1.6250	1.6250	1.2500	.140	.125	657	653
2.8750	5.8750	1.6250	1.6250	1.2500	.140	.125	657	652A
2.8750	5.8750	2.1250	2.1350	1.7500	.140	.031	6460	6420A
2.8750	5.8750	2.1250	2.1350	1.7500	.140	.125	6460	6420
2.8750	5.9090	1.7500	1.8375	1.4375	.140	.125	744	742
2.8750	6.0000	1.6250	1.6250	1.2500	.140	.125	657	652
2.8750	6.2990	1.8750	1.9000	1.5000	.140	.031	7762	752A
2.8750	6.3750	1.8750	1.9000	1.5000	.140	.125	7762	752
2.8750	6.6250	1.8750	1.9000	1.5000	.140	.125	7762	753
2.9062	5.0000	1.4375	1.4240	1.1250	.031	.125	568	563
2.9375	5.5115	1.4375	1.4212	1.1250	.140	.125	577	572
2.9375	5.7500	1.6250	1.6250	1.2500	.140	.125	658	653
2.9375	5.8750	1.6250	1.6250	1.2500	.140	.125	658	652A
2.9375	6.0000	1.6250	1.6250	1.2500	.140	.125	658	652
2.9518	4.7812	.9688	.9060	.6875	.080	.080	34294	34478
2.9518	5.0000	1.0625	.9060	.7812	.080	.125	34294	34500
3.0000	4.1563	.5313	.5313	.3750	.062	.062	LL714649	LL714610
3.0000	4.3125	.7500	.7500	.5938	.062	.062	L814749	L814710
3.0000	4.7812	.9688	.9060	.6875	.080	.080	34300	34478
3.0000	4.7812	.9688	.9060	.6875	.140	.080	34301	34478
3.0000	4.9375	1.0000	1.0000	.7813	.140	.062	27684	27620
3.0000	5.0000	1.0625	.9060	.7812	.080	.125	34300	34500
3.0000	5.0000	1.0625	.9060	.7812	.140	.125	34301	34500
3.0000	5.0000	1.1875	1.2205	.8750	.140	.125	42687	42620
3.0000	5.0000	1.1875	1.2205	.8750	.250	.125	42688	42620
3.0000	5.2500	1.1875	1.1720	.8750	.140	.125	495A	492A
3.0000	5.2500	1.1875	1.1720	.8750	.250	.125	495AX	492A
3.0000	5.2500	1.3125	1.3125	1.0313	.031	.125	47680	47620
3.0000	5.2500	1.3125	1.3125	1.0313	.140	.125	47679	47620
3.0000	5.3438	1.7500	1.8150	1.3750	.140	.125	5760	5735
3.0000	5.3750	1.1875	1.1720	.8750	.140	.125	495A	493
3.0000	5.3750	1.1875	1.1720	.8750	.250	.125	495AX	493
3.0000	5.5115	1.4375	1.4212	1.1250	.140	.125	575	572
3.0000	5.5115	1.4375	1.4212	1.1250	.265	.125	5755	572
3.0000	5.7500	1.6250	1.6250	1.2500	.140	.125	659	653
3.0000	5.8750	1.6250	1.6250	1.2500	.140	.125	659	652A
3.0000	5.8750	2.1250	2.1350	1.7500	.140	.031	6461	6420A
3.0000	5.8750	2.1250	2.1350	1.7500	.140	.125	6461	6420
3.0000	5.8750	2.1250	2.1350	1.7500	.250	.031	6466	6420A
3.0000	5.8750	2.1250	2.1350	1.7500	.250	.125	6466	6420
3.0000	5.9090	1.7500	1.8375	1.4375	.140	.125	7485	742
3.0000	6.0000	1.5625	1.4300	1.1875	.140	.125	590A	592A
3.0000	6.0000	1.6250	1.6250	1.2500	.140	.125	659	652
3.0000	6.2990	1.8750	1.9000	1.5000	.140	.031	755	752A
3.0000	6.3750	1.8750	1.9000	1.5000	.140	.125	755	752
3.0000	6.3750	2.1250	2.1693	1.6875	.140	.031	6576	6536
3.0000	6.3750	2.1250	2.1693	1.6875	.140	.125	6576	6535
3.0000	6.3750	2.1250	2.1693	1.6875	.250	.031	6575	6536
3.0000	6.3750	2.1250	2.1693	1.6875	.250	.125	6575	6535
3.0000	6.6250	1.8750	1.9000	1.5000	.140	.125	755	753
3.0000	6.6250	2.1250	2.2190	1.6250	.031	.125	837	832
3.0000	6.6250	2.1250	2.2190	1.6250	.250	.125	843	832
3.0000	7.5000	2.2500	2.2650	1.8125	.140	.125	HH221430	HH221410
3.0000	7.8750	2.4375	2.2650	2.0000	.140	.125	HH221430	HH221416
3.0455	4.7812	.9688	.9060	.6875	.140	.080	34304	34478
3.0455	5.0000	1.0625	.9060	.7812	.140	.125	34304	34500
3.0625	4.7812	.9688	.9060	.6875	.140	.080	34306	34478
3.0625	5.0000	1.0625	.9060	.7812	.140	.125	34306	34500
3.0625	5.0000	1.1875	1.2205	.8750	.140	.125	42690	42620
3.0625	5.2500	1.1875	1.1720	.8750	.140	.125	495A5	492A
3.0625	5.3438	1.7500	1.8150	1.3750	.140	.125	5795	5735
3.0625	5.3750	1.1875	1.1720	.8750	.140	.125	495A5	493
3.1250	5.7500	1.6250	1.6250	1.2500	.140	.125	661	663
3.1250	5.8750	1.6250	1.6250	1.2500	.140	.125	661	652A
3.1250	5.9090	1.7500	1.8375	1.4375	.140	.125	750	742

TIMKEN BEARINGS—SINGLE-ROW STRAIGHT BORE—TYPE TS (Cont'd)

bore A	outside diam. B	width C	cone length D	cup length E	cone radius R	cup radius r	part number	
							cone	cup
3.1250	6.0000	1.5625	1.4300	1.1875	.140	.125	595A	592A
3.1250	6.0000	1.6250	1.6250	1.2500	.140	.125	661	652
3.1250	7.5000	2.2500	2.2650	1.8125	.140	.125	HM221431	HM221410
3.1250	7.8750	2.4375	2.2650	2.0000	.140	.125	HM221431	HM221416
3.1490	5.5115	1.4375	1.4212	1.1250	.140	.125	578	572
3.1490	6.0000	1.5625	1.4300	1.1875	.140	.125	590	592A
3.1875	5.2500	1.1875	1.1720	.8750	.140	.125	496	492A
3.1875	5.2500	1.3125	1.3125	1.0313	.140	.125	47681	47620
3.1875	5.3750	1.1875	1.1720	.8750	.140	.125	496	493
3.1875	5.5115	1.4375	1.4212	1.1250	.140	.125	581	572
3.1875	5.9090	1.7500	1.8375	1.4375	.203	.125	740	742
3.1875	6.6250	2.1250	2.2190	1.6250	.031	.125	838	832
3.2500	4.5625	.8125	.8438	.6563	.062	.062	L116149	L116110
3.2500	4.9375	1.0000	1.0000	.7813	.140	.062	27687	27620
3.2500	5.2500	1.1875	1.1720	.8750	.140	.125	495	492A
3.2500	5.2500	1.3125	1.3125	1.0313	.031	.125	47685	47620
3.2500	5.2500	1.3125	1.3125	1.0313	.140	.125	47686	47620
3.2500	5.2500	1.3125	1.3125	1.0313	.265	.125	47687	47620
3.2500	5.2500	1.5625	1.5625	1.2813	.140	.125	HM516449	HM516410
3.2500	5.3750	1.1875	1.1720	.8750	.140	.125	495	493
3.2500	5.5115	1.4375	1.4212	1.1250	.140	.125	580	572
3.2500	5.5115	1.4375	1.4212	1.1250	.265	.125	582	572
3.2500	5.7500	1.6250	1.6250	1.2500	.140	.125	663	653
3.2500	5.7500	1.6250	1.6250	1.2500	.265	.125	663A	653
3.2500	5.8750	1.6250	1.6250	1.2500	.140	.125	663	652A
3.2500	5.8750	1.6250	1.6250	1.2500	.265	.125	663A	652A
3.2500	5.9090	1.7500	1.8375	1.4375	.140	.125	749A	742
3.2500	5.9090	1.7500	1.8375	1.4375	.265	.125	750A	742
3.2500	6.0000	1.5625	1.4300	1.1875	.140	.125	595	592A
3.2500	6.0000	1.6250	1.6250	1.2500	.140	.125	663	652
3.2500	6.0000	1.6250	1.6250	1.2500	.265	.125	663A	652
3.2500	6.2990	1.8750	1.9000	1.5000	.140	.031	757	752A
3.2500	6.3750	1.8750	1.9000	1.5000	.140	.125	757	752
3.2500	6.3750	2.1250	2.1693	1.6875	.140	.031	6559	6536
3.2500	6.3750	2.1250	2.1693	1.6875	.140	.125	6559	6535
3.2500	6.6250	1.8750	1.9000	1.5000	.140	.125	757	753
3.2500	6.6250	2.1250	2.2190	1.6250	.031	.125	839	832
3.2500	6.6250	2.1250	2.2190	1.6250	.140	.125	842	832
3.2813	4.9375	1.0000	1.0000	.7813	.031	.062	27689	27620
3.2813	4.9375	1.0000	1.0000	.7813	.140	.062	27690	27620
3.3125	5.2500	1.1875	1.1720	.8750	.140	.125	498	492A
3.3125	5.3750	1.1875	1.1720	.8750	.140	.125	498	493
3.3125	5.7500	1.6250	1.6250	1.2500	.140	.125	664	653
3.3125	5.8750	1.6250	1.6250	1.2500	.140	.125	664	652A
3.3125	6.0000	1.6250	1.6250	1.2500	.140	.125	664	652
3.3475	5.9090	1.7500	1.8375	1.4375	.140	.125	749	742
3.3475	5.9090	1.7500	1.8375	1.4375	.203	.125	7495	742
3.3750	5.2500	1.1875	1.1720	.8750	.140	.125	497	492A
3.3750	5.3750	1.1875	1.1720	.8750	.140	.125	497	493
3.3750	5.5960	1.6875	1.6875	1.3438	.187	.125	HM617049	HM617010
3.3750	5.7500	1.6250	1.6250	1.2500	.140	.125	665	653
3.3750	5.8750	1.6250	1.6250	1.2500	.140	.125	665	652A
3.3750	6.0000	1.5625	1.4300	1.1875	.140	.125	596	592A
3.3750	6.0000	1.6250	1.6250	1.2500	.140	.125	665	652
3.3750	6.2990	1.8750	1.9000	1.5000	.140	.031	758	752A
3.3750	6.3750	1.8750	1.9000	1.5000	.140	.125	758	752
3.3750	6.6250	1.6250	1.6250	1.1875	.140	.125	677	672
3.3750	6.6250	1.8750	1.9000	1.5000	.140	.125	758	753
3.3750	6.6250	2.1250	2.2190	1.6250	.140	.125	841	832
3.4375	4.8750	.8125	.8125	.6563	.062	.062	L217847	L217810
3.4375	5.0000	.8125	.8125	.7500	.062	.062	L217847	L217813
3.4375	6.0000	1.5625	1.4300	1.1875	.140	.125	5965	592A
3.4375	7.5000	2.2500	2.2650	1.7500	.312	.125	869	854
3.4375	7.5000	2.2500	2.2650	1.8125	.312	.125	HH221432	HH221410
3.4375	7.8750	2.4375	2.2650	1.9375	.312	.125	869	854X
3.4375	7.8750	2.4375	2.2650	2.0000	.312	.125	HH221432	HH221416
3.4630	5.8437	1.1250	1.1406	.8438	.120	.120	42346	42584
3.4630	5.8750	1.2500	1.1406	.9688	.120	.125	42346	42587
3.5000	4.7812	.5938	.5938	.4375	.062	.062	LL217849	LL217810
3.5000	4.8750	.8125	.8125	.6563	.062	.062	L217849	L217810
3.5000	5.0000	.8125	.8125	.7500	.062	.062	L217849	L217813
3.5000	5.8437	1.1250	1.1406	.8438	.120	.120	42350	42584
3.5000	5.8750	1.2500	1.1406	.9688	.120	.125	42350	42587
3.5000	6.0000	1.5625	1.4300	1.1875	.140	.125	593	592A
3.5000	6.0000	1.5625	1.4300	1.1875	.250	.125	593A	592A
3.5000	6.2990	1.8750	1.9000	1.5000	.140	.031	759	752A
3.5000	6.2990	1.8750	1.9000	1.5000	.281	.031	766	752A
3.5000	6.3750	1.8750	1.9000	1.5000	.140	.125	759	752
3.5000	6.3750	1.8750	1.9000	1.5000	.281	.125	766	752
3.5000	6.3750	2.1250	2.1693	1.6875	.140	.031	6580	6536
3.5000	6.3750	2.1250	2.1693	1.6875	.140	.125	6580	6535
3.5000	6.6250	1.6250	1.6250	1.1875	.140	.125	679	672
3.5000	6.6250	1.8750	1.9000	1.5000	.140	.125	759	753
3.5000	6.6250	1.8750	1.9000	1.5000	.281	.125	766	753

bore A	outside diam. B	width C	cone length D	cup length E	cone radius R	cup radius r	part number	
							cone	cup
3.5000	6.6250	2.1250	2.2190	1.6250	.140	.125	850	832
3.5000	6.7500	1.8750	1.9000	1.5000	.203	.125	77350	77675
3.5000	7.1250	1.8750	1.8900	1.5000	.187	.125	775	772
3.5000	7.5000	2.2500	2.2650	1.7500	.312	.125	855	854
3.5000	7.5000	2.2500	2.2650	1.8125	.312	.125	HH221434	HH221410
3.5000	7.8750	2.4375	2.2650	1.9375	.312	.125	855	854X
3.5000	7.8750	2.4375	2.2650	2.0000	.312	.125	HH221434	HH221416
3.5075	6.0000	1.5625	1.4300	1.1875	.140	.125	5935	592A
3.5390	6.6250	2.1250	2.2190	1.6250	.140	.125	850A	832
3.5430	6.3030	1.1860	1.1875	.8780	.093	.125	69354	69630
3.5625	6.2990	1.8750	1.9000	1.5000	.140	.031	760	752
3.5625	6.3750	1.8750	1.9000	1.5000	.140	.125	760	752
3.5625	6.6250	1.8750	1.9000	1.5000	.140	.125	760	753
3.6250	5.7500	1.3125	1.3750	1.0313	.140	.125	47890	47820
3.6250	5.8437	1.1250	1.1406	.8438	.140	.120	42362	42584
3.6250	5.8750	1.2500	1.1406	.9688	.140	.125	42362	42587
3.6250	6.0000	1.5625	1.4300	1.1875	.140	.125	598	592A
3.6250	6.0000	1.5625	1.4300	1.1875	.250	.125	598A	592A
3.6250	6.6250	1.6250	1.6250	1.1875	.140	.125	681	672
3.6250	6.6250	1.6250	1.6250	1.1875	.250	.125	681A	672
3.6250	6.7500	1.8750	1.9000	1.5000	.140	.125	77362	77675
3.6250	6.7500	1.8750	1.9000	1.5000	.250	.125	77364	77675
3.6250	7.1250	1.8750	1.8900	1.5000	.140	.125	778	772
3.6250	7.5000	2.2500	2.2650	1.7500	.312	.125	857	854
3.6250	7.5000	2.2500	2.2650	1.8125	.312	.125	HH221438	HH221410
3.6250	7.8750	2.4375	2.2650	1.9375	.312	.125	857	854X
3.6250	7.8750	2.4375	2.2650	2.0000	.312	.125	HH221438	HH221416
3.6250	8.4375	2.8750	2.8750	2.1250	.375	.250	EE213362	213843
3.6875	5.8437	1.1250	1.1406	.8438	.120	.120	42368	42584
3.6875	5.8750	1.2500	1.1406	.9688	.120	.125	42368	42587
3.6875	6.0000	1.5625	1.4300	1.1875	.140	.125	597	592A
3.7392	7.5000	2.2500	2.2650	1.7500	.140	.125	867A	854
3.7392	7.8750	2.4375	2.2650	1.9375	.140	.125	867A	854X
3.7500	5.0625	.6250	.5938	.4688	.062	.062	LL319349	LL319310
3.7500	5.1250	.8125	.8438	.6563	.062	.062	L319249	L319210
3.7500	5.7500	1.3125	1.3750	1.0313	.140	.125	47896	47820
3.7500	5.8437	1.1250	1.1406	.8438	.120	.120	42375	42584
3.7500	5.8437	1.1250	1.1406	.8438	.140	.120	42376	42584
3.7500	5.8750	1.2500	1.1406	.9688	.120	.125	42375	42587
3.7500	5.8750	1.2500	1.1406	.9688	.140	.125	42376	42587
3.7500	6.0000	1.5625	1.4300	1.1875	.140	.125	594	592A
3.7500	6.0000	1.5625	1.4300	1.1875	.203	.125	594A	592A
3.7500	6.1875	1.4375	1.4219	1.0313	.140	.125	52375	52618
3.7500	6.3750	1.4375	1.4219	1.0313	.140	.125	52375	52637
3.7500	6.3750	1.5625	1.4219	1.1563	.140	.125	52375	52638
3.7500	6.6250	1.6250	1.6250	1.1875	.140	.125	683	672
3.7500	6.7500	1.8750	1.9000	1.5000	.140	.125	77375	77675
3.7500	7.1250	1.8750	1.8900	1.5000	.140	.125	776	772
3.7500	7.1250	1.8750	1.8900	1.5000	.375	.125	777	772
3.7500	7.5000	2.2500	2.2650	1.7500	.312	.125	864	854
3.7500	7.5000	2.2500	2.2650	1.8125	.312	.125	HH221440	HH221410
3.7500	7.8750	2.4375	2.2650	1.9375	.312	.125	864	854X
3.7500	7.8750	2.4375	2.2650	2.0000	.312	.125	HH221440	HH221416
3.8125	5.8437	1.1250	1.1406	.8438	.140	.120	42381	42584
3.8125	5.8750	1.2500	1.1406	.9688	.140	.125	42381	42587
3.8750	6.1875	1.4375	1.4219	1.0313	.140	.125	52387	52618
3.8750	6.3750	1.4375	1.4219	1.0313	.140	.125	52387	52637
3.8750	6.3750	1.5625	1.4219	1.1563	.140	.125	52387	52638
3.8750	6.6250	1.6250	1.6250	1.1875	.140	.125	685	672
3.8750	7.1250	1.8750	1.8900	1.5000	.140	.125	779	772
3.8750	7.5000	2.2500	2.2650	1.7500	.140	.125	866	854
3.8750	7.5000	2.2500	2.2650	1.8125	.140	.125	HH221442	HH221410
3.8750	7.8750	2.4375	2.2650	1.9375	.140	.125	866	854X
3.8750	7.8750	2.4375	2.2650	2.0000	.140	.125	HH221442	HH221416
3.8750	8.3750	2.6250	2.6250	2.1250	.140	.125	HH224332	HH224310
3.8750	8.3750	2.6250	2.6250	2.1250	.140	.125	943	932
3.8750	8.4636	2.5511	2.6250	2.0000	.140	.125	HH224332	HH224314
3.9360	8.3750	2.6250	2.6250	2.1250	.140	.125	944A	932
3.9360	8.3750	2.6250	2.6250	2.1250	.140	.125	HH224334	HH224310
3.9360	8.4636	2.5511	2.6250	2.0000	.140	.125	HH224334	HH224314
3.9363	7.5000	2.2500	2.2650	1.8125	.250	.125	HH221447	HH221410
3.9363	7.8750	2.4375	2.2650	2.0000	.250	.125	HH221447	HH221416
3.9370	7.1250	1.8750	1.8900	1.5000	.140	.125	783	772
3.9370	7.5000	2.2500	2.2650	1.7500	.236	.125	863X	854
3.9370	7.8750	2.4375	2.2650	1.9375	.236	.125	863X	854X
3.9375	6.1875	1.4375	1.4219	1.0313	.140	.125	52393	52618
3.9375	6.3750	1.4375	1.4219	1.0313	.140	.125	52393	52637
3.9375	6.3750	1.5625	1.4219	1.1563	.140	.125	52393	52638
4.0000	5.3125	.6250	.5938	.4688	.062	.062	LL420549	LL420510
4.0000	5.3750	.8438	.8438	.6563	.062	.062	L420449	L420410
4.0000	5.7500	.8438	.8438	.6563	.062	.062	L521945	L521910
4.0000	6.0000	.8438	.8438	.6563	.062	.062	L521945	L521914
4.0000	6.1875	1.4375	1.4219	1.0313	.140	.125	52400	52618
4.0000	6.3750	1.4375	1.4219	1.0313	.140	.125	52400	52637

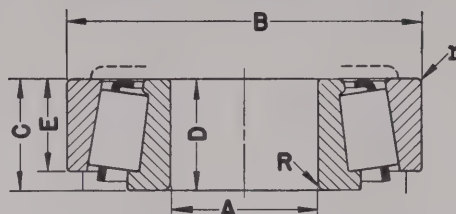


TIMKEN® BEARINGS

REGISTERED TRADE MARK
KEEN KOLLER BEARING COMPANY

single-row straight bore – type TS

ARRANGED BY BORE DIAMETERS



AVAILABLE IN
PRECISION
TOLERANCES

Class No. 4

Class No. 2

Class No. 3

Class No. 0

See page 122

(Continued)

bore A	outside diam. B	width C	cone length D	cup length E	cone radius R	cup radius r	part number	
							cone	cup
4.0000	6.3750	1.5625	1.4219	1.1563	.140	.125	52400	52638
4.0000	6.6250	1.6250	1.6250	1.1875	.140	.125	687	672
4.0000	7.1250	1.8750	1.8900	1.5000	.140	.125	780	772
4.0000	7.5000	2.2500	2.2650	1.7500	.312	.125	861	854
4.0000	7.5000	2.2500	2.2650	1.8125	.312	.125	HH221449	HH221410
4.0000	7.8750	2.4375	2.2650	1.9375	.312	.125	861	854X
4.0000	7.8750	2.4375	2.2650	2.0000	.312	.125	HH221449	HH221416
4.0000	8.3750	2.6250	2.6250	2.1250	.281	.125	941	932
4.0000	8.3750	2.6250	2.6250	2.1250	.281	.125	HH224335	HH224310
4.0000	8.4636	2.5511	2.6250	2.0000	.281	.125	HH224335	HH224314
4.1250	7.1250	1.8750	1.8900	1.5000	.140	.125	782	772
4.1250	7.1250	1.8750	1.8900	1.5000	.250	.125	786	772
4.1250	7.1250	1.8750	1.8900	1.5000	.281	.125	787	772
4.1250	7.5000	1.8750	1.9375	1.3750	.140	.125	71412	71750
4.1875	6.5000	1.4375	1.4375	1.0625	.140	.125	56418	56650
4.1875	6.6250	1.4375	1.4375	1.0625	.140	.125	56418	56662
4.2500	5.7500	.8438	.8438	.6563	.062	.062	L521949	L521910
4.2500	6.0000	.8438	.8438	.6563	.062	.062	L521949	L521914
4.2500	6.2987	1.3750	1.3750	1.0625	.140	.125	LM522546	LM522510
4.2500	6.3750	1.3750	1.3750	1.0625	.140	.125	48190	48120
4.2500	6.5000	1.4375	1.4375	1.0625	.140	.125	56425	56650
4.2500	6.6250	1.4375	1.4375	1.0625	.140	.125	56425	56662
4.2500	6.7500	1.3866	1.1875	.9948	.140	.125	67425	67675
4.2500	7.5000	1.8750	1.9375	1.3750	.140	.125	71425	71750
4.2500	8.3750	2.6250	2.6250	2.1250	.312	.125	936	932
4.2500	8.3750	2.6250	2.6250	2.1250	.312	.125	HH224340	HH224310
4.2500	8.4636	2.5511	2.6250	2.0000	.312	.125	HH224340	HH224314
4.3288	7.5000	1.8750	1.9375	1.3750	.140	.125	71432	71750
4.3302	6.2987	1.3750	1.3750	1.0625	.140	.125	LM522549	LM522510
4.3304	7.0000	1.6250	1.6250	1.1875	.140	.125	64433	64700
4.3438	6.7500	1.3866	1.1875	.9948	.140	.125	67434	67675
4.3750	6.7500	1.3866	1.1875	.9948	.140	.125	67437	67675
4.3750	7.5000	1.8750	1.9375	1.3750	.140	.125	71437	71750
4.5000	6.0000	.8438	.8438	.6563	.062	.062	L623149	L623110
4.5000	7.0000	1.6250	1.6250	1.1875	.140	.125	64450	64700
4.5000	7.1250	1.3750	1.2500	1.0000	.140	.125	68450	68712
4.5000	7.5000	1.8750	1.9375	1.3750	.140	.125	71450	71750
4.5000	8.3750	2.6250	2.6250	2.1250	.281	.125	938	932
4.5000	8.3750	2.6250	2.6250	2.1250	.281	.125	HH224346	HH224310
4.5000	8.4636	2.5511	2.6250	2.0000	.281	.125	HH224346	HH224314
4.5266	8.3750	2.6250	2.6250	2.1250	.281	.125	HH224349	HH224310
4.5266	8.4636	2.5511	2.6250	2.0000	.281	.125	HH224349	HH224314
4.5310	7.5000	1.8750	1.9375	1.3750	.140	.125	71453	71750
4.5310	7.5000	1.8750	1.9375	1.3750	.312	.125	71455	71750
4.6250	7.1250	1.3750	1.2500	1.0000	.140	.125	68462	68712
4.7235	6.8750	1.4063	1.4375	1.0938	.140	.062	M224748	M224710
4.7500	6.3125	.8438	.8438	.6563	.062	.062	L624549	L624510
4.7500	6.3750	.8438	.8438	.6563	.062	.062	L624549	L624514
4.7500	6.6875	1.0000	1.0313	.8125	.062	.062	L225842	L225810
4.7500	7.1250	1.0000	1.0313	.8125	.062	.062	L225842	L225818
4.7500	8.1250	1.8750	1.8750	1.3750	.125	.125	795	792
4.7500	9.2500	2.5000	2.5000	1.9375	.250	.125	95475	95925
4.7500	9.7500	2.5000	2.5000	1.9375	.250	.125	95475	95975
4.7500	10.0000	3.0625	3.2500	2.2500	.375	.250	EE153044	153100
4.7500	10.0000	3.0625	3.2500	2.4375	.375	.250	HH228340	HH228310
4.7500	10.1875	3.0625	3.2500	2.2500	.375	.250	EE153044	153101
4.7500	10.2500	3.0625	3.2500	2.2500	.375	.250	EE153044	153102
4.8750	7.1875	1.5625	1.5000	1.3125	.140	.125	48286	48220
4.8750	10.0000	3.0625	3.2500	2.2500	.375	.250	EE153049	153100
4.8750	10.0000	3.0625	3.2500	2.4375	.375	.250	HH228342	HH228310
4.8750	10.1875	3.0625	3.2500	2.2500	.375	.250	EE153049	153101
4.8750	10.2500	3.0625	3.2500	2.2500	.375	.250	EE153049	153102
4.9190	9.2500	2.5000	2.5000	1.9375	.250	.125	95491	95925
4.9190	9.7500	2.5000	2.5000	1.9375	.250	.125	95491	95975
5.0000	6.5313	.7188	.6875	.5313	.062	.062	L1225740	L1225710
5.0000	6.6875	1.0000	1.0313	.8125	.062	.062	L225849	L225810
5.0000	7.1250	1.0000	1.0313	.8125	.062	.062	L225849	L225818
5.0000	7.1875	1.5625	1.5000	1.3125	.140	.125	48290	48220

bore A	outside diam. B	width C	cone length D	cup length E	cone radius R	cup radius r	part number	
							cone	cup
5.0000	7.7500	1.8125	1.8125	1.5000	.140	.125	67388	67322
5.0000	8.0000	1.8125	1.8125	1.5000	.140	.125	67388	67320
5.0000	8.0000	1.8125	1.8125	1.8125	.140	.125	67388	67324
5.0000	8.5000	1.8750	1.8750	1.3750	.140	.125	74500	74850
5.0000	8.5625	1.8750	1.8750	1.3750	.140	.125	74500	74856
5.0000	9.2500	2.5000	2.5000	1.9375	.250	.125	95500	95925
5.0000	9.7500	2.5000	2.5000	1.8750	.125	.187	EE116050	116097
5.0000	9.7500	2.5000	2.5000	1.9375	.250	.125	95500	95975
5.0000	9.8750	2.5000	2.5000	1.8750	.125	.187	EE116050	116098
5.0000	10.0000	3.0625	3.2500	2.2500	.375	.250	EE153050	153100
5.0000	10.0000	3.0625	3.2500	2.4375	.375	.250	HH228340	HH228310
5.0000	10.1875	3.0625	3.2500	2.2500	.375	.250	EE153050	153101
5.0000	10.2500	3.0625	3.2500	2.2500	.375	.250	EE153050	153102
5.0000	11.3750	3.2500	3.4375	2.2500	.531	.250	HH231637	HH231610
5.0000	11.6250	3.2500	3.4375	2.2500	.531	.250	HH231637	HH231615
5.0000	11.6250	3.3750	3.5000	2.5000	.250	.250	EE455051	455116
5.0000	12.0000	2.3750	2.4375	1.6250	.250	.250	EE750502	751200
5.0000	12.0000	3.1250	3.1250	2.1875	.250	.125	EE580500	581200
5.0625	8.1250	1.8750	1.8750	1.3750	.125	.125	799	792
5.1181	8.1250	1.8750	1.8750	1.3750	.140	.125	797	792
5.1250	7.7500	1.8125	1.8125	1.5000	.140	.125	67389	67322
5.1250	8.0000	1.8125	1.8125	1.5000	.140	.125	67389	67320
5.1250	8.0000	1.8125	1.8125	1.8125	.140	.125	67389	67324
5.1250	8.1250	1.8750	1.8750	1.3750	.140	.125	799A	792
5.2500	8.6125	.7500	.6875	.5625	.062	.062	LL327049	LL327010
5.2500	6.9688	1.0000	1.0313	.8125	.062	.062	LL327249	LL327110
5.2500	7.5000	1.5625	1.5625	1.3125	.140	.125	48385	48320
5.2500	7.7500	1.8125	1.8125	1.5000	.140	.125	67390	67322
5.2500	7.7500	1.8125	1.8125	1.5000	.312	.125	67391	67322
5.2500	8.0000	1.5625	1.5625	1.3125	.140	.125	48385	48328
5.2500	8.0000	1.8125	1.8125	1.5000	.140	.125	67390	67320
5.2500	8.0000	1.8125	1.8125	1.8125	.140	.125	67390	67324
5.2500	8.0000	1.8125	1.8125	1.5000	.312	.125	67391	67320
5.2500	8.0000	1.8125	1.8125	1.8125	.312	.125	67391	67324
5.2500	8.5000	1.8750	1.8750	1.3750	.140	.125	74525	74850
5.2500	8.5625	1.8750	1.8750	1.3750	.140	.125	74525	74856
5.2500	9.2500	2.5000	2.5000	1.9375	.187	.125	95528	95925
5.2500	9.2500	2.5000	2.5000	1.9375	.375	.125	95525	95925
5.2500	9.7500	2.5000	2.5000	1.9375	.187	.125	95528	95975
5.2500	9.7500	2.5000	2.5000	1.9375	.375	.125	95525	95975
5.3750	7.5000	1.5625	1.5625	1.3125	.140	.125	48393	48320
5.3750	8.0000	1.5625	1.5625	1.3125	.140	.125	48393	48328
5.3750	8.5000	1.8750	1.8750	1.3750	.140	.125	74537	74850
5.3750	8.5625	1.8750	1.8750	1.3750	.140	.125	74537	74856
5.3750	9.0000	2.2500	2.2500	1.7500	.140	.125	896	892
5.3750	10.0000	2.6250	2.6250	1.8750	.281	.125	99537	99100
5.3750	12.0000	3.1250	3.1250	2.1875	.500	.125	EE580537	581200
5.5000	7.1250	.8438	.8125	.6563	.062	.062	LL428349	LL428310
5.5000	7.3750	1.1250	1.1563	.9063	.062	.062	LM328448	LM328410
5.5000	8.5000	1.8750	1.8750	1.3750	.140	.125	74550	74850
5.5000	8.5625	1.8750	1.8750	1.3750	.140	.125	74550	74856
5.5000	8.7500	1.3750	1.2450	.9375	.140	.125	73551	73875
5.5000	9.0000	2.2500	2.2500	1.7500	.140	.125	898	892
5.5000	9.3125	2.2500	2.2300	1.7500	.140	.125	82550	82931
5.5000	9.3125	2.2500	2.2300	1.7500	.140	.125	HM231132	HM231110
5.5000	9.5000	2.2500	2.2300	1.7500	.140	.125	82550	82950
5.5000	9.5000	2.2500	2.2300	1.7500	.140	.125	HM231132	HM231110
5.5000	10.0000	2.6250	2.6250	1.8750	.281	.125	99550	99100
5.5000	11.3750	3.2500	3.4375	2.2500	.375	.250	HH231649	HH231610
5.5000	11.6250	3.2500	3.4375	2.2500	.375	.250	HH231649	HH231615
5.5000	12.0000	2.3750	2.4375	1.6250	.125	.250	EE750558	751200
5.5000	12.0000	2.3750	2.4375	1.6250	.250	.250	EE750562	751200
5.5000	12.1250	3.5000	3.6875	2.4375	.375	.265	EE450551	451212
5.5000	12.1250	3.5000	3.6875	2.6250	.375	.265	HH234031	HH234010
5.5000	12.1250	3.5000	3.6875	2.6250	.375	.265	HH234032	HH234010
5.5000	12.1250	3.5000	3.6875	2.6250	.375	.265	HH234032	HH234010
5.5000	12.1250	3.5000	3.6875	2.6250	.375	.265	HH234032	HH234010
5.5000	12.1250	3.5000	3.6875	2.6250	.375	.265	HH234032	HH234010
5.5000	12.1250	3.5000	3.6875	2.6250	.375	.265	HH234032	HH234010
5.5000	12.1250	3.5000	3.6875	2.6250	.375	.265	HH234032	HH234010
5.5000	12.1250	3.5000	3.6875	2.6250	.375	.265	HH234032	HH234010
5.5000	12.1250	3.5000	3.6875	2.6250	.375	.265	HH234032	HH234010
5.5000	12.1250	3.5000	3.6875	2.6250	.375	.265	HH234032	HH234010
5.5000	12.1250	3.5000	3.6875	2.6250	.375	.265	HH234032	HH234010
5.5000	12.1250	3.5000	3.6875	2.6250	.375	.265	HH234032	HH234010
5.5000	12.1250	3.5000	3.6875	2.6250	.375	.265	HH234032	HH234010
5.5000	12.1250	3.5000	3.6875	2.6250	.375	.265	HH234032	HH234010
5.5000	12.1250	3.5000	3.6875	2.6250	.375	.265	HH234032	HH234010
5.5000	12.1250	3.5000	3.6875	2.6250	.375	.265	HH234032	HH234010
5.5000	12.1250	3.5000	3.6875	2.6250	.375	.265	HH234032	HH234010
5.5000	12.1250	3.5000	3.6875	2.6250	.375	.265	HH234032	HH234010
5.5000	12.1250	3.5000	3.6875	2.6250	.375	.265	HH234032	HH234010
5.5000	12.1250	3.5000	3.6875	2.6250	.375	.265	HH234032	HH234010
5.5000	12.1250	3.5000	3.6875	2.6250	.375	.265	HH234032	HH234010
5.5000	12.1250	3.5000	3.6875	2.6250	.375	.265	HH234032	HH234010
5.5000	12.1250	3.5000	3.6875	2.6250	.375	.265	HH234032	HH234010
5.5000	12.1250	3.5000	3.6875	2.6250	.375	.265	HH234032	HH234010
5.5000	12.1250	3.5000	3.6875	2.6250	.375	.265	HH234032	HH234010
5.5000	12.1250	3.5000	3.6875	2.6250	.375	.265	HH234032	HH234010
5.5000	12.1250	3.5000	3.6875	2.6250	.375	.265	HH234032	HH234010
5.5000	12.1250	3.5000	3.6875	2.6250	.375	.265	HH234032	HH234010
5.5000	12.1250	3.5000	3.6875	2.6250	.375	.265	HH234032	HH234010
5.5000	12.1250	3.5000	3.6875	2.6250	.375	.265	HH234032	HH234010
5.5000	12.1250	3.5000	3.6875	2.6250	.375	.265	HH234032	HH234010
5.5000	12.1250	3.5000	3.6875	2.6250	.375	.265	HH234032	HH234010
5.5000	12.1250	3.5000	3.6875	2.6250	.375	.265	HH234032	HH234010
5.5000	12.1250	3.5000	3.6875	2.6250	.375	.265	HH234032	HH234010
5.5000	12.1250	3.5000	3.6875	2.6250	.375	.265	HH234032	HH234010
5.5000	12.1250	3.5000	3.6875	2.6250	.375	.265	HH234032	HH234010
5.5000	12.1250	3.5000	3.6875	2.6250	.375	.265	HH234032	HH234010
5.5000	12.1250	3.5000	3.6875	2.6250	.375	.265	HH234032	HH234010
5.5000	12.1250	3.5000	3.6875	2.6250	.375	.265	HH234032	HH234010
5.5000	12.1250	3.5000	3.6875	2.6250	.375	.265	HH234032	HH234010
5.5000	12.1250	3.5000	3.6875	2.6250	.375	.265	HH234032	HH234010
5.5000	12.1250	3.5000	3.6875	2.6250	.375	.265	HH234032	HH234010
5.5000	12.1250	3.5000	3.6875	2.6250	.375	.265	HH234032	HH234010
5.5000	12.1250	3.5000	3.6875	2.6250	.375	.265	HH234032	HH234010
5.5000	12.1250	3.5000	3.6875	2.6250	.375	.265	HH234032	HH234010
5.5000	12.1250	3.5000	3.6875	2.6250	.375	.265	HH234032	HH234010
5.5000	12.1250	3.5000	3.6875	2.6250	.375	.265	HH234032	HH234010
5.5000	12.1250	3.5000	3.6875	2.6250	.375	.265	HH234032	HH234010
5.5000	12.1250	3.5000	3.6875	2.6250	.375	.265	HH234032	HH234010
5.5000	12.1250	3.5000	3.6875	2.6250	.375	.265	HH234032	HH234010

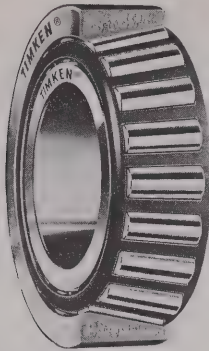
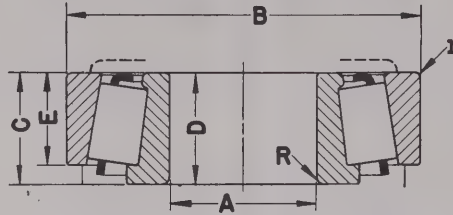
Continued next page

NEED HELP ON BEARINGS—CALL US

TIMKEN BEARINGS—SINGLE-ROW STRAIGHT BORE—TYPE TS (Cont'd)

Bore A	Outside diam. B	Width C	Cone length D	Cup length E	Cone radius R	Cup radius r	Part number	
							Cone	Cup
5.6250	7.8750	1.6250	1.5625	1.3437	.140	.125	48685	48620
5.6250	7.8750	1.6250	1.5625	1.3437	.312	.125	48684	48620
5.6250	8.7500	1.3750	1.2450	.9375	.140	.125	73562	73875
5.6250	9.3125	2.2500	2.2300	1.7500	.140	.125	82562	82931
5.6250	9.3125	2.2500	2.2300	1.7500	.140	.125	HM231136	HM231110
5.6250	9.5000	2.2500	2.2300	1.7500	.140	.125	82562	82950
5.6250	9.5000	2.2500	2.2300	1.7500	.140	.125	HM231136	HM231115
5.7500	7.4063	.8750	.8125	.6563	.062	.062	LL529740	LL529710
5.7500	7.6250	1.1250	1.1250	.9063	.062	.062	36690	36620
5.7500	8.0000	1.1250	1.1250	.9063	.062	.062	36690	36626
5.7500	9.3125	2.2500	2.2300	1.7500	.140	.125	82576	82931
5.7500	9.3125	2.2500	2.2300	1.7500	.140	.125	HM231140	HM231110
5.7500	9.5000	2.2500	2.2300	1.7500	.140	.125	82576	82950
5.7500	9.5000	2.2500	2.2300	1.7500	.140	.125	HM231140	HM231115
5.7500	9.6250	1.8750	1.9687	1.3125	.140	.125	81575	81962
5.7500	10.0000	2.6250	2.6250	1.8750	.281	.125	99575	99100
5.7500	10.5625	2.9375	2.9375	2.2500	.250	.250	EE107057	107105
5.7500	11.2500	3.0000	2.8750	2.1875	.046	.250	EE217064	217112
5.7500	11.2500	3.0000	2.8750	2.1875	.250	.250	EE217056	217112
5.7500	11.4375	2.9375	2.8750	2.1250	.046	.250	EE217064	217114
5.7500	11.4375	2.9375	2.8750	2.1250	.250	.250	EE217056	217114
5.7500	12.0000	2.3750	2.4375	1.6250	.125	.250	EE750576	751200
5.7500	12.0000	2.3750	2.4375	1.6250	.250	.250	EE750577	751200
5.7500	12.0000	2.3750	2.4375	1.6250	.500	.250	EE750573	751200
5.7500	12.0000	3.1250	3.1250	2.1875	Spec.	.125	EE580578	581200
5.7500	12.1250	3.5000	3.6875	2.4375	.375	.265	EE450577	451212
5.7500	12.1250	3.5000	3.6875	2.6250	.375	.265	HH234040	HH234010
5.7500	12.5000	3.5000	3.6875	2.4375	.375	.265	EE450577	451250
5.7500	12.5000	3.5000	3.6875	2.6250	.375	.265	HH234040	HH234010
5.7500	9.3125	2.2500	2.2300	1.7500	.140	.125	82587	82931
5.7500	9.3125	2.2500	2.2300	1.7500	.140	.125	HM231149	HM231110
5.7500	9.5000	2.2500	2.2300	1.7500	.140	.125	82587	82950
5.7500	9.5000	2.2500	2.2300	1.7500	.140	.125	HM231149	HM231115
5.7500	10.0000	2.6250	2.6250	1.8750	.281	.125	99587	99100
5.9000	12.7500	3.0625	3.0000	2.1250	.531	.187	EE560590	561275
5.9055	9.6250	1.8750	1.9687	1.3125	.140	.125	81590	81962
5.9330	12.7500	3.0625	3.0000	2.1250	.687	.187	EE560592	561275
5.9375	9.6250	1.8750	1.9687	1.3125	.140	.125	81593	81962
6.0000	8.7500	1.8437	1.8437	1.3750	.140	.062	M231649	M231610
6.0000	9.6250	1.8750	1.9687	1.3125	.140	.125	81600	81962
6.0000	10.0000	2.6250	2.6250	1.8750	.281	.125	99600	99100
6.0000	10.5625	2.9375	2.9375	2.2500	.250	.250	EE107060	107105
6.0000	11.2500	3.0000	2.8750	2.1875	.062	.250	EE217060	217112
6.0000	11.4375	2.9375	2.8750	2.1250	.062	.250	EE217060	217114
6.0000	12.1250	3.5000	3.6875	2.4375	.375	.265	EE450601	451212
6.0000	12.1250	3.5000	3.6875	2.6250	.375	.265	HH234048	HH234010
6.0000	12.1250	3.5000	3.6875	2.6250	.375	.265	HH234049	HH234010
6.0000	12.5000	3.5000	3.6875	2.4375	.375	.265	EE450601	451250
6.0000	12.5000	3.5000	3.6875	2.6250	.375	.265	HH234048	HH234018
6.0000	12.5000	3.5000	3.6875	2.6250	.375	.265	HH234049	HH234018
6.0000	12.7500	3.0625	3.0000	2.1250	.687	.187	EE560600	561275
6.0625	9.6250	1.8750	1.9687	1.3125	.140	.125	81606	81962
6.2500	8.0938	.9375	.9375	.7188	.062	.062	L432349	L432310
6.2500	8.8750	1.6250	1.5625	1.3125	.140	.125	46780	46720
6.2500	12.0000	2.6250	2.7207	1.6875	.250	.125	EE280626	281200
6.2960	12.7500	3.0625	3.0000	2.1250	.406	.187	EE560629	561275
6.2973	9.6250	1.8750	1.9687	1.3125	.140	.125	81629	81962
6.3120	11.3750	2.5000	2.5000	1.8750	.281	.125	HM237532	HM237510
6.3750	13.5000	3.1250	3.1875	2.1250	.250	.250	EE590638	591350
6.5000	8.5000	1.0313	1.0313	.8125	.062	.062	L433749	L433710
6.5000	8.8750	1.6250	1.5625	1.3125	.140	.125	46790	46720
6.5000	8.8750	1.6250	1.5625	1.3125	.312	.125	46790A	46720
6.5000	9.7500	1.8750	1.8750	1.5000	.140	.125	67780	67720
6.5000	10.0000	1.8125	1.8125	1.3125	.187	.125	86650	86100
6.5000	10.0000	1.8125	1.8125	1.3125	.187	.125	M235145	M235113
6.5000	11.3750	2.5000	2.5000	1.8750	.281	.125	94649	94113
6.5000	11.3750	2.5000	2.5000	1.8750	.281	.125	HM237535	HM237510
6.5000	11.7500	2.5000	2.5000	1.8750	.281	.125	94649	94118
6.5000	12.2500	3.2500	3.2500	2.5000	.250	.250	EE219065	219122
6.5000	12.2500	3.2500	3.2500	2.5625	.250	.250	H238140	H238110
6.5000	12.7500	3.0625	3.0000	2.1250	.125	.187	EE560650	561275
6.5000	13.2500	3.6250	3.7500	2.7500	.125	.250	HH437549	HH437510
6.5000	13.5000	3.1250	3.1875	2.1250	.046	.250	EE590649	591350
6.5000	13.5000	3.1250	3.1875	2.1250	.687	.250	EE590650	591350
6.5000	13.6875	2.7500	2.6875	2.0000	.375	.250	EE618065	618136
6.5000	14.0000	2.4375	2.3750	1.6250	.187	.187	EE780655	781400
6.5000	14.2500	4.1875	4.1250	3.0000	.531	.125	EE108065	108142
6.6250	9.7500	1.8750	1.8750	1.5000	.140	.125	67782	67720
6.6929	10.0000	1.8125	1.8125	1.3125	.187	.125	86669	86100
6.6929	10.0000	1.8125	1.8125	1.3125	.187	.125	M235149	M235113
6.7500	8.7500	1.0000	.9688	.7500	.062	.062	L435049	L435010
6.7500	10.2500	2.6250	2.6250	2.0625	.140	.125	HM535349	HM535310
6.7500	11.3750	2.5000	2.5000	1.8750	.281	.125	94675	94113
6.7500	11.7500	2.5000	2.5000	1.8750	.281	.125	94675	94118

bore A	outside diam. B	width C	cone length D	cup length E	cone radius R	cup radius r	part number	
							cone	cup
6.7500	13.5000	3.1250	3.1875	2.1250	.250	.250	EE590675	591350
6.7500	14.0000	2.4375	2.3750	1.6250	.187	.187	EE780676	781400
6.8750	9.7500	1.8750	1.8750	1.5000	.140	.125	67787	67720
6.8750	11.3750	2.5000	2.5000	1.8750	.281	.125	94687	94113
6.8750	11.3750	2.5000	2.5000	1.8750	.281	.125	HM237542	HM237510
6.8750	11.7500	2.5000	2.5000	1.8750	.281	.125	94687	94118
6.8750	12.2500	3.2500	3.2500	2.5000	.250	.250	EE219068	219122
6.8750	12.2500	3.2500	3.2500	2.5625	.250	.250	H238148	H238110
6.8750	14.0000	2.4375	2.3750	1.6250	.187	.187	EE780688	781400
6.9375	14.0000	2.4375	2.3750	1.6250	.187	.187	EE780694	781400
7.0000	8.5000	.8125	.8125	.5938	.062	.062	LL735449	LL735410
7.0000	8.9375	1.1875	1.1875	.9063	.062	.062	36990	36920
7.0000	9.7500	1.8750	1.8750	1.5000	.140	.125	67790	67720
7.0000	9.7500	1.8750	1.8750	1.5000	.406	.125	67791	67720
7.0000	10.6250	2.1875	2.1875	1.6875	.140	.125	M238840	M238810
7.0000	11.2500	2.5000	2.5000	1.6250	.250	.125	EE91702	91112
7.0000	11.3750	2.5000	2.5000	1.8750	.281	.125	94700	94113
7.0000	11.3750	2.5000	2.5000	1.8750	.281	.125	HM237545	HM237510
7.0000	11.7500	2.5000	2.5000	1.8750	.281	.125	94700	94118
7.0000	12.0000	2.6250	2.7207	1.6875	.250	.125	EE280702	281200
7.0000	12.5970	3.5000	3.3750	2.5625	.140	.187	EE222070	222126
7.0000	12.5970	3.5000	3.3750	2.5625	.140	.187	H239640	H239610
7.0000	12.6250	3.5000	3.3750	2.5625	.140	.187	EE222070	222128
7.0000	12.6250	3.5000	3.3750	2.5625	.140	.187	H239640	H239612
7.0000	13.0000	3.5625	3.6250	2.5000	.046	.250	EE470081	470130
7.0000	13.0000	3.5625	3.6250	2.5000	.250	.250	EE470078	470130
7.0000	13.0000	3.5625	3.6250	2.5000	.531	.250	EE470073	470130
7.0000	13.2500	3.5625	3.6250	2.5000	.046	.250	EE470081	470132
7.0000	13.2500	3.5625	3.6250	2.5000	.250	.250	EE470078	470132
7.0000	13.3750	3.5625	3.6250	2.5000	.046	.250	EE470081	470133
7.0000	13.3750	3.5625	3.6250	2.5000	.250	.250	EE470078	470133
7.0000	13.3750	3.5625	3.6250	2.5000	.531	.250	EE470073	470133
7.0000	14.0000	2.4375	2.3750	1.6250	.187	.187	EE780705	781400
7.0000	14.0000	2.4375	2.3750	1.6250	.500	.187	EE780706	781400
7.0000	14.0000	3.1250	3.0625	2.1250	.250	.250	EE607070	607140
7.0000	14.3720	3.6250	3.4999	2.5000	.500	.125	EE420701	421437
7.0000	14.5000	3.6250	3.4999	2.5000	.500	.125	EE420701	421450
7.0855	12.5000	2.5000	2.5000	1.8125	.140	.125	93708	93125
7.0855	12.5000	2.6875	2.5000	2.0000	.140	.125	93708	93126
7.2500	9.3125	1.0312	1.0000	.7500	.062	.062	LL537649	LL537610
7.2500	10.5000	1.8750	1.8438	1.5000	.140	.125	67883	67820
7.3750	10.5000	1.8750	1.8438	1.5000	.140	.125	67884	67820
7.3750	10.6250	2.1875	2.1875	1.6875	.140	.125	M238849	M238810
7.3750	11.1250	2.0000	1.8750	1.4375	.140	.125	87737	87111
7.3750	12.5970	3.5000	3.3750	2.5625	.218	.187	H239649	H239610
7.3750	12.6250	3.5000	3.3750	2.5625	.218	.187	H239649	H239612
7.5000	10.5000	1.8750	1.8438	1.5000	.140	.125	67885	67820
7.5000	11.1250	2.0000	1.8750	1.4375	.140	.125	87750	87111
7.5000	12.5000	2.5000	2.5000	1.8125	.171	.125	93750	93125
7.5000	12.5000	2.6875	2.5000	2.0000	.171	.125	93750	93126
7.5000	13.0000	2.5000	2.4375	1.6875	.281	.125	EE210753	211300
7.5000	13.0000	3.5625	3.6250	2.5000	.250	.250	EE470075	470130
7.5000	13.2500	3.5625	3.6250	2.5000	.250	.250	EE470075	470132
7.5000	13.3750	3.5625	3.6250	2.5000	.250	.250	EE470075	470133
7.5000	14.0000	3.1250	3.0625	2.1250	.250	.250	EE607075	607140
7.5000	14.3720	3.6250	3.4999	2.5000	.250	.125	EE420751	421437
7.5000	14.5000	3.6250	3.4999	2.5000	.250	.125	EE420751	421450
7.6250	11.1250	2.0000	1.8750	1.4375	.140	.125	87762	87111
7.7500	10.0000	1.1250	1.0938	.8438	.062	.062	L540049	L540010
7.7500	12.5000	2.5000	2.5000	1.8125	.171	.125	93775	93125
7.7500	12.5000	2.6875	2.5000	2.0000	.171	.125	93775	93126
7.8750	12.5000	2.5000	2.5000	1.8125	.171	.125	93787	93125
7.8750	12.5000	2.6875	2.5000	2.0000	.171	.125	93787	93126
7.8750	14.0000	2.7500	2.7500	1.9375	.265	.062	EE130787	131400
7.8750	15.1250	4.4375	4.4375	3.5625	.250	.250	H247535	H247510
7.8750	15.5000	4.3750	4.3750	3.3125	.250	.250	HH144642	HH144610
7.9375	14.3720	3.6250	3.4999	2.5000	.125	.125	EE420793	421437
7.9375	14.5000	3.6250	3.4999	2.5000	.125	.125	EE420793	421450
8.0000	10.2812	1.1250	1.0938	.8438	.062	.062	LL641149	LL641110
8.0000	10.8750	1.6875	1.6875	1.3438	.140	.125	LM241149	LM241110
8.0000	11.1250	1.8125	1.8125	1.4375	.140	.125	67983	67920
8.0000	12.5000	2.1250	2.1250	1.3750	.156	.125	EE132083	132125
8.0000	12.5000	2.5000	2.5000	1.8125	.171	.125	93800	93125
8.0000	12.5000	2.5000	2.5000	1.8125	.312	.125	93800A	93125
8.0000	12.5000	2.6250	2.6250	2.0000	.171	.125	EE122080	122125
8.0000	12.5000	2.6875	2.5000	2.0000	.171	.125	93800	93126
8.0000	12.5000	2.6875	2.5000	2.0000	.312	.125	93800A	93126
8.0000	12.5625	2.1250	2.1250	1.3750	.156	.125	EE132083	132127
8.0000	14.3720	3.6250	3.4999	2.5000	.125	.125	EE420801	421437
8.0000	14.5000	3.6250	3.4999	2.5000	.125	.125	EE420801	421450
8.0000	16.0000	2.5000	2.4375	1.5625	.281	.250	EE710806	711600
8.1250	11.1250	1.8125	1.8125	1.4375	.140	.125	67985	67920
8.1250	12.5000	2.1250	2.1250	1.3750	.156	.125	EE132084	132125

**TIMKEN® BEARINGS**REGISTERED TRADE MARK
THE TIMKEN ROLLER BEARING COMPANY**single-row straight bore – type TS****ARRANGED BY BORE DIAMETERS****AVAILABLE IN
PRECISION
TOLERANCES**Class No. 4
Class No. 2
Class No. 3
Class No. 0

See page 122

(Continued)

bore A	outside diam. B	width C	cone length D	cup length E	cone radius R	cup radius r	part number	
							cone	cup
8.1250	12.5625	2.1250	2.1250	1.3750	.156	.125	EE132084	132127
8.1250	13.2500	3.8750	3.9375	3.0625	.125	.125	H242649	H242610
8.2500	12.5000	2.5000	2.5000	1.8125	.171	.125	93825	93125
8.2500	12.5000	2.5000	2.5000	1.8125	.500	.125	93825A	93125
8.2500	12.5000	2.6875	2.5000	2.0000	.171	.125	93825	93126
8.2500	12.5000	2.6875	2.5000	2.0000	.500	.125	93825A	93126
8.3750	11.2500	1.8125	1.8125	1.3750	.140	.125	LM742745	LM742710
8.5000	11.2500	1.8125	1.8125	1.3750	.140	.125	LM742749	LM742710
8.5000	11.4177	1.2500	1.2500	.8750	.140	.125	543085	543114
8.5000	11.4964	1.2500	1.2500	.8750	.140	.125	543085	543116
8.5000	14.0000	2.7500	2.7500	1.9375	.265	.062	EE130851	131400
8.6602	11.4177	1.2500	1.2500	.8750	.140	.125	543086	543114
8.6602	11.4964	1.2500	1.2500	.8750	.140	.125	543086	543116
8.6875	12.3750	2.4375	2.4375	1.9375	.250	.125	M244249	M244210
8.8750	14.0000	2.7500	2.7500	1.9375	.265	.062	EE130889	131400
8.8750	15.7500	3.5000	3.4375	2.5000	.062	.125	EE430888	431575
8.9500	16.0000	2.5000	2.4375	1.5625	.281	.250	EE710905	711600
9.0000	11.6250	1.3125	1.2500	.9375	.140	.125	544090	544116
9.0000	11.8125	1.3125	1.2500	.9375	.140	.125	544090	544118
9.0000	12.6250	2.0000	1.9375	1.3125	.250	.125	88900	88126
9.0000	12.8750	2.0625	2.0625	1.4375	.250	.125	EE8573	8520
9.0000	12.8750	2.0625	1.9375	1.3750	.250	.125	88900	88128
9.0000	14.0000	2.7500	2.7500	2.0000	.250	.250	HM746646	HM746610
9.0000	14.0000	2.7500	2.7500	1.9375	.265	.062	EE130902	131400
9.0000	15.7500	3.5000	3.4375	2.5000	.406	.125	EE430900	431575
9.0000	15.7500	3.5000	3.4375	2.5000	.781	.125	EE430902	431575
9.0000	16.0000	2.5000	2.4375	1.5625	.281	.250	EE710906	711600
9.0000	16.7500	4.0000	3.7500	3.0000	.281	.250	EE700091	700167
9.1250	11.6250	1.3125	1.2500	.9375	.140	.125	544091	544116
9.1250	11.8125	1.3125	1.2500	.9375	.140	.125	544091	544118
9.2500	12.6250	2.0000	1.9375	1.3125	.250	.125	88925	88126
9.2500	12.8750	2.0625	1.9375	1.3750	.250	.125	88925	88128
9.2500	12.8750	2.0625	2.0625	1.4375	.250	.125	EE8575	8520
9.2500	15.1250	4.4375	4.4375	3.5625	.250	.250	H247549	H247510
9.2500	15.1250	4.4375	4.4375	3.5625	.250	.250	H247548	H247510
9.3437	13.2500	2.5625	2.5625	2.0000	.250	.125	M246949	M246910
9.4930	14.5000	2.6875	2.6875	2.1250	.250	.125	EE125094	125145
9.5000	12.8750	2.0625	2.0625	1.4375	.250	.125	EE8578	8520
9.5000	13.7460	2.2500	2.2500	1.7500	.250	.125	EE127095	127135
9.5000	13.8125	2.2500	2.2500	1.7500	.250	.125	EE127095	127137
9.5000	13.9960	2.2500	2.2500	1.7500	.250	.125	EE127095	127138
9.5000	14.0000	2.0000	2.0000	1.3125	.250	.125	EE170950	171400
9.5000	14.0000	2.2500	2.2500	1.7500	.250	.125	EE127095	127140
9.5000	14.3720	2.0000	2.0000	1.3125	.250	.125	EE170950	171436
9.5000	14.5000	2.0000	2.0000	1.3125	.250	.125	EE170950	171450
9.5000	14.5000	2.6875	2.6875	2.1250	.250	.125	EE125095	125145
9.5000	15.5000	2.9062	2.7500	1.9687	.250	.250	EE275095	275155
9.5000	15.8750	2.7500	2.7500	1.8125	.250	.250	EE275095	275158
9.5000	16.0000	2.7500	2.7500	1.8125	.250	.250	EE275095	275160
9.5000	17.5000	4.0000	3.9375	3.0000	.250	.187	EE923095	923175
9.5000	19.2500	4.7500	4.7500	3.6250	.250	.250	EE295950	295193
9.6250	15.0000	3.1250	3.0000	2.2500	.250	.187	EE126097	126150
9.7500	12.0000	.8750	.8750	.6250	.062	.062	28880	28820
9.7500	14.0000	2.0000	2.0000	1.3125	.250	.125	EE170975	171400
9.7500	14.3720	2.0000	2.0000	1.3125	.250	.125	EE170975	171436
9.7500	14.5000	2.0000	2.0000	1.3125	.250	.125	EE170975	171450
9.7500	16.0000	4.5625	4.6250	3.6875	.250	.250	H249949	H249910
9.7500	23.7500	6.3125	6.2500	4.8125	.250	.375	EE515097	515237
9.8130	15.0000	3.1250	3.0000	2.2500	.250	.187	EE126098	126150
10.0000	12.7500	.8750	.8750	.6250	.062	.062	29875	29820
10.0000	14.1250	2.8125	2.8125	2.1250	.140	.125	M249749	M249710
10.0000	14.3750	2.3125	2.3125	1.6875	.250	.250	EE134100	134143
10.0000	14.5000	2.3125	2.3125	1.6875	.250	.250	EE134100	134145
10.0000	15.5000	2.9062	2.7500	1.9687	.250	.250	EE275100	275155
10.0000	15.7500	2.2500	2.1875	1.6250	.125	.062	EE251001	251575
10.0000	15.8750	2.7500	2.7500	1.8125	.250	.250	EE275100	275158
10.0000	16.0000	2.7500	2.7500	1.8125	.250	.250	EE275100	275160
10.0000	16.6250	3.3906	3.1406	2.6250	.265	.125	HM252343	HM252310

bore A	outside diam. B	width C	cone length D	cup length E	cone radius R	cup radius r	part number	
							cone	cup
10.0000	16.6250	3.3906	3.1406	2.6250	.265	.125	HM252344	HM252310
10.0000	16.6250	3.3907	3.1406	2.6250	.265	.125	EE551002	551662
10.0000	16.9970	3.2500	3.1406	2.3750	.265	.140	EE551002	551700
10.0000	16.9970	3.2500	3.1406	2.3750	.265	.140	HM252343	HM252315
10.0000	16.9970	3.2500	3.1406	2.3750	.265	.140	HM252344	HM252315
10.0000	17.5080	3.0000	2.8750	2.0000	.250	.125	EE822100	822175
10.0000	19.5000	3.0000	2.9375	2.1250	.250	.125	EE941002	941950
10.1875	15.7500	2.7500	2.6563	1.8125	.375	.250	EE211018	221575
10.2500	14.3750	2.3125	2.3125	1.6875	.250	.125	EE134102	134144
10.2500	14.5000	2.3125	2.3125	1.6875	.250	.250	EE134102	134144
10.2500	15.7500	2.7500	2.6563	1.8125	.375	.250	EE221026	221575
10.2500	16.0000	2.7500	2.6643	2.1250	.125	.125	EE128102	128160
10.2500	16.1410	2.7500	2.6643	2.1250	.125	.125	EE128102	128161
10.2500	16.6250	3.3906	3.1406	2.6250	.265	.125	HM252348	HM252310
10.2500	16.6250	3.3906	3.1406	2.6250	.265	.125	HM252349	HM252310
10.2500	16.6250	3.3907	3.1406	2.6250	.265	.125	EE551026	551662
10.2500	16.9970	3.2500	3.1406	2.3750	.265	.140	EE551026	551700
10.2500	16.9970	3.2500	3.1406	2.3750	.265	.140	HM252348	HM252315
10.2500	16.9970	3.2500	3.1406	2.3750	.265	.140	HM252349	HM252315
10.2500	19.2500	4.7500	4.7500	3.6250	.250	.250	EE295102	295193
10.3750	12.8125	1.1250	1.1250	1.0000	.062	.062	38880	38820
10.3750	14.0000	2.2500	2.2500	1.7500	.140	.125	76587	76520
10.5000	12.7500	.8750	.8750	.6250	.062	.062	29880	29820
10.5000	12.8125	1.1250	1.1250	1.0000	.062	.062	38885	38820
10.5000	14.0000	2.2500	2.2500	1.7500	.140	.125	76590	76520
10.5000	15.5000	2.9062	2.7500	1.9687	.250	.250	EE275105	275155
10.5000	15.8750	2.7500	2.7500	1.8125	.250	.250	EE275105	275158
10.5000	16.0000	2.7500	2.7500	1.8125	.250	.250	EE275105	275160
10.5000	16.6250	3.3907	3.1406	2.6250	.265	.125	EE551050	551662
10.5000	16.9970	3.2500	3.1406	2.3750	.265	.140	EE551050	551700
10.6250	15.0000	2.9375	2.9375	2.2500	.250	.125	M252349	M252310
10.7500	15.5000	2.9062	2.7500	1.9687	.250	.250	EE275108	275155
10.7500	15.8750	2.7500	2.7500	1.8125	.250	.250	EE275108	275158
10.7500	16.0000	2.7500	2.7500	1.8125	.250	.250	EE275108	275160
10.8750	13.8750	1.4375	1.3750	.9375	.140	.125	L853049	L853010
11.0000	18.5000	3.7500	3.6875	2.7500	.375	.125	EE722110	722185
11.0000	19.2500	4.7500	4.7500	3.6250	.046	.250	EE295110	295193
11.0236	16.0000	2.7500	2.6643	2.1250	.250	.125	EE128112	128160
11.0236	16.0000	2.7500	2.6643	2.1250	.250	.125	EE128114	128160
11.0236	16.1410	2.7500	2.6643	2.1250	.250	.125	EE128112	128161
11.0236	16.1410	2.7500	2.6643	2.1250	.250	.125	EE128114	128161
11.0312	15.7500	2.0625	1.9768	1.3750	.265	.125	EE101103	101575
11.0312	16.0000	2.0625	1.9768	1.3750	.265	.125	EE101103	101600
11.0312	16.0000	2.7500	2.6643	2.1250	.265	.125	EE128110	128160
11.0312	16.0000	2.7500	2.6643	2.1250	.265	.125	EE128111	128160
11.0312	16.1410	2.7500	2.6643	2.1250	.265	.125	EE128111	128161
11.0312	16.1410	2.7500	2.6643	2.1250	.265	.125	EE128111	128161
11.2500	13.9375	1.3125	1.2500	.8750	.140	.125	545112	545139
11.2500	14.1250	1.3125	1.2500	.8750	.140	.125	545112	545141
11.2500	14.9960	2.5625	2.5625	1.9375	.140	.125	LM654649	LM654610
11.2500	18.5000	3.2193	3.1720	2.2500	.375	.125	EE921124	921850
11.2500	18.7500	3.2193	3.1720	2.2500	.375	.125	EE921124	921875
11.3750	16.0000	3.0625	3.0625	2.3750	.250	.125	M255449	M255410
11.5000	18.5000	3.7500	3.6875	2.7500	.375	.125	EE722115	722185
11.5000	20.5000	4.2500	4.2500	3.0000	.250	.250	EE244115	242404
11.5000	22.0000	5.3750	5.3750	3.8750	.046	.250	EE790118	790221
11.5000	22.0000	5.3750	5.3750	3.8750	.250	.250	EE790114	790221
11.5000	22.0000	5.3750	5.3750	3.8750	.781	.250	EE790116	790221
11.7500	17.0000	2.7500	2.3125	2.1250	.250	.125	EE111175	111700
11.7500	17.2500	2.7500	2.3125	2.1250	.250	.125	EE111175	111725
11.7500	17.5000	2.5000	2.4375	1.5625	.312	.062	EE291175	291750
11.7500	17.5000	2.5000	2.4375	1.5625	.312	.125	EE291175	291749
11.8125	16.6250	3.2500	3.2500	2.5000	.250	.125	HM256849	HM256810
12.0000	15.5000	2.0000	2.0000	1.5000	.250	.125	L357049	L357010
12.0000	16.0000	2.5000	2.5000	1.8750	.250	.125	LM750749	LM750710
12.0000	17.5000	2.5000	2.4375	1.5625	.312	.062	EE291201	291750
12.0000	17.5000	2.5000	2.4375	1.5625	.312	.125	EE291201	291749
12.0000	19.5000	3.0000	2.9375	2.1250	.250	.125	EE941205	941950

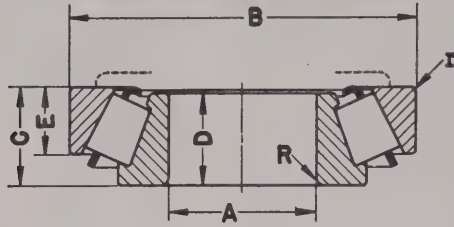
TIMKEN BEARINGS—SINGLE-ROW STRAIGHT BORE—TYPE TS (Cont'd)

bore A	outside diam. B	width C	cone length D	cup length E	cone radius R	cup radius r	part number	
							cone	cup
12.0000	19.5000	3.7500	3.6250	2.7500	.625	.250	EE724118	724195
12.0000	19.5000	3.7500	3.6250	2.7500	.625	.250	EE724119	724195
12.0000	19.5000	3.7500	3.6250	2.7500	.625	.250	EE724120	724195
12.0000	22.0000	5.3750	5.3750	3.8750	.046	.250	EE790120	790221
12.5000	17.5000	2.5000	2.4375	1.5625	.312	.062	EE291250	291750
12.5000	17.5000	2.5000	2.4375	1.5625	.312	.125	EE291250	291749
12.5000	17.6250	3.3750	3.3750	2.5875	.140	.125	HM259049	HM259010
12.5000	18.0000	2.6250	2.5625	1.6875	.265	.265	EE201250	201800
12.5000	23.5000	5.3750	5.3750	3.8750	.781	.250	EE720125	720236
12.8125	23.5000	5.3750	5.3750	3.8750	.250	.250	EE720128	720236
12.9870	21.0000	3.0002	3.0000	2.0000	.187	.125	EE971298	972010
13.0000	16.3750	1.8750	1.8750	1.3750	.140	.125	L860049	L860010
13.0000	16.3750	1.8750	1.8750	1.3750	.500	.125	L860048	L860010
13.0000	18.5000	2.3750	2.1875	1.5000	.281	.250	EE161300	161850
13.0000	19.0000	2.3750	2.1875	1.5000	.281	.250	EE161300	161900
13.0000	19.0000	2.6250	2.5000	1.7500	.265	.265	EE203130	203190
13.0000	19.0000	3.3750	3.1562	2.3750	.125	.125	EE526132	526190
13.0000	19.0000	3.3750	3.1562	2.3750	.250	.125	EE526130	526190
13.0000	19.2500	2.3750	2.1875	1.5000	.281	.250	EE161300	161925
13.1250	18.5000	3.5625	3.5625	2.8125	.250	.125	HM261049	HM261010
13.5000	17.7500	2.6250	2.6250	2.0625	.328	.140	LM361649	LM361610
13.5000	21.0000	3.0002	3.0000	2.0000	.187	.125	EE971354	972010
13.6250	18.5000	2.3750	2.1875	1.5000	.281	.250	EE161363	161850
13.6250	19.0000	2.3750	2.1875	1.5000	.281	.250	EE161363	161900
13.6250	19.0000	2.6250	2.5000	1.7500	.265	.265	EE203136	203190
13.6250	19.0000	2.6250	2.5000	1.7500	.500	.265	EE203137	203190
13.6250	19.2500	2.3750	2.1875	1.5000	.281	.250	EE161363	161925
13.6250	19.2500	3.7500	3.7500	2.9375	.250	.125	HM262749	HM262710
13.7500	19.7500	3.5625	3.3125	2.7500	.250	.125	EE333137	333197
13.9375	18.5000	2.3750	2.1875	1.5000	.281	.250	EE161394	161850
13.9375	19.0000	2.3750	2.1875	1.5000	.281	.250	EE161394	161900
13.9375	19.2500	2.3750	2.1875	1.5000	.281	.250	EE161394	161925
14.0000	17.5000	2.3750	2.3750	1.8750	.140	.125	L163149	L163110
14.0000	18.5000	2.3750	2.1875	1.5000	.281	.250	EE161400	161850
14.0000	19.0000	2.3750	2.1875	1.5000	.281	.250	EE161400	161900
14.0000	19.2500	2.3750	2.1875	1.5000	.281	.250	EE161400	161925
14.0000	19.7500	2.9375	2.6250	2.0000	.250	.125	EE231400	231975
14.0000	19.7500	3.5625	3.3125	2.7500	.250	.125	EE333140	333197
14.0000	20.2500	2.9375	2.6250	2.0000	.250	.125	EE231400	232025
14.0000	26.5000	6.0000	6.0000	4.5000	.625	.250	EE121140	121265
14.0000	32.0000	9.7500	9.7500	7.7500	.500	.500	EE619140	619320
14.5000	23.5000	3.7500	3.6250	2.3750	.375	.250	EE181453	182350
14.5000	24.0000	5.6250	5.5000	4.3750	.312	.250	EE321145	321240
14.5000	24.5000	5.6250	5.5000	4.3750	.312	.250	EE321145	321245
14.6250	19.7500	2.9375	2.6250	2.0000	.250	.125	EE231462	231975
14.6250	20.2500	2.9375	2.6250	2.0000	.250	.125	EE231462	232025
14.7500	17.0000	1.1250	1.1250	.8125	.140	.125	LL264648	LL264610
14.7500	20.5625	3.3750	3.3125	2.4375	.250	.125	LM565943	LM565910
14.8750	20.0000	2.5000	2.3125	1.5000	.250	.125	EE192148	192200
14.8750	20.5625	3.3750	3.3125	2.4375	.250	.125	LM565946	LM565910
15.0000	18.8750	1.9375	1.8750	1.3750	.250	.125	L865547	L865512
15.0000	20.0000	2.5000	2.3125	1.5000	.250	.125	EE192150	192200
15.0000	20.5625	3.3750	3.3125	2.4375	.250	.125	LM565949	LM565910
15.0000	21.5000	4.1250	4.1250	3.2500	.250	.250	HM266447	HM266410
15.1250	17.3750	1.1250	1.1250	.8125	.140	.125	LL365348	LL365310
15.1250	21.5000	4.1250	4.1250	3.2500	.250	.250	HM266449	HM266410
15.5000	21.5000	3.0000	2.4063	1.8750	.250	.250	EE234154	234215
15.5000	22.0000	2.5625	2.4063	1.7500	.250	.250	EE234154	234220
15.6250	21.5000	3.0000	2.4063	1.8750	.250	.250	EE234156	234215
15.6250	22.0000	2.5625	2.4063	1.7500	.250	.250	EE234156	234220
15.8550	21.5000	3.0000	2.4063	1.8750	.250	.250	EE234159	234215
15.8550	22.0000	2.5625	2.4063	1.7500	.250	.250	EE234159	234220
15.8750	18.1250	1.1250	1.1250	.8125	.140	.125	LL566848	LL566810
16.0000	20.0000	2.4375	2.4375	1.8750	.125	.125	L467549	L467510
16.0000	21.5000	3.0000	2.4063	1.8750	.250	.250	EE234160	234215
16.0000	21.6250	3.3750	3.3125	2.4375	.250	.125	LM567949	LM567910
16.0000	22.0000	2.5625	2.4063	1.7500	.250	.250	EE234160	234220
16.0000	22.6250	3.0000	2.6719	2.0000	.265	.125	EE285160	285226
16.0000	23.9970	3.2500	3.1250	2.3750	.312	.250	EE736160	736238
16.0000	23.9970	3.4375	3.1250	2.5625	.312	.250	EE736160	736237
16.0000	24.0000	3.6250	3.3125	2.3750	.265	.250	EE911600	912400
16.0000	26.5000	3.5000	3.4580	2.3750	.250	.125	EE571602	572650
16.0000	26.5000	3.7500	3.4580	2.6250	.250	.125	EE571602	572654
16.1250	22.6250	3.0000	2.6719	2.0000	.265	.125	EE285162	285226
16.1875	24.0000	3.6250	3.3125	2.3750	.265	.250	EE911618	912400
16.3750	23.2500	4.5000	4.5000	3.5000	.250	.250	M268749	M268710
16.7500	26.9960	5.6250	5.6220	4.1250	.500	.250	EE328167	328269
16.9375	23.7500	3.0000	2.8750	2.0000	.250	.250	EE241693	242375
17.0000	21.0000	1.8125	1.8125	1.3750	.125	.125	EE80385	80325
17.0000	21.7500	1.7500	1.7500	1.2500	.125	.125	EE80170	80217
17.0000	22.2500	1.7500	1.7500	1.2500	.125	.125	EE80170	80222
17.0000	23.7500	3.0000	2.8750	2.0000	.250	.250	EE241701	242375
17.0000	26.5000	3.5000	3.4580	2.3750	.250	.125	EE571703	572650
17.0000	26.5000	3.5000	3.4580	2.3750	.500	.125	EE571704	572654

bore A	outside diam. B	width C	cone length D	cup length E	cone radius R	cup radius r	part number	
							cone	cup
17.0000	26.5000	3.7500	3.4580	2.6250	.250	.125	EE571703	572654
17.0000	26.5000	3.7500	3.4580	2.6250	.500	.125	EE571704	572654
17.3750	26.0000	3.5937	3.3750	2.4687	.406	.250	EE737173	737260
17.6250	21.7500	1.7500	1.7500	1.2500	.125	.125	EE80176	80217
17.6250	22.2500	1.7500	1.7500	1.2500	.125	.125	EE80176	80222
17.6250	25.0000	4.7500	4.7500	3.7500	.250	.250	M270749	M270710
17.7500	23.7500	3.3750	3.3125	2.3750	.250	.125	LM770945	LM770910
18.0000	22.5625	2.9375	2.9375	2.2500	.250	.250	L570649	L570610
18.0000	23.5000	3.0000	2.8750	2.1250	.375	.125	EE244180	244235
18.0000	23.7500	3.3750	3.3125	2.3750	.250	.125	LM770949	LM770910
18.0000	26.0000	3.5937	3.3750	2.4687	.406	.250	EE737181	737260
18.0000	28.7460	4.7500	4.5000	3.2500	.375	.250	EE671801	672873
18.8750	26.7500	5.0625	5.0625	4.0000	.250	.250	M272749	M272710
19.0000	24.2500	2.1250	1.8125	1.6250	.125	.125	EE80480	80425
19.0000	24.2500	3.3750	3.3750	2.6250	.250	.250	LM272249	LM272210
19.0000	24.9950	3.1875	3.1875	2.5000	.250	.125	EE243190	243250
19.2390	26.0000	3.6875	3.7188	2.7500	.250	.250	EE640191	640260
19.2500	24.9950	3.3125	3.3125	2.4375	.250	.125	LM772748	LM772710
19.2500	26.0000	3.6875	3.7188	2.7500	.250	.250	EE640192	640260
19.2530	24.9950	3.1875	3.1875	2.5000	.250	.125	EE243192	243250
19.6250	24.9950	3.1875	3.1875	2.5000	.250	.125	EE243196	243250
19.9200	29.0000	3.5000	3.2188	2.1250	.250	.125	EE981992	982900
20.0000	29.0000	3.5000	3.2188	2.1250	.250	.125	EE982003	982900
20.0000	33.0000	5.7500	5.5000	4.1250	.375	.375	EE426200	426330
20.2500	29.0000	3.5000	3.2188	2.1250	.250	.125	EE982028	982900
20.5000	29.0000	3.5000	3.2188	2.1250	.250	.125	EE982051	982900
21.0000	30.8750	3.5000	3.2500	2.1250	.250	.250	EE522102	523087
21.5000	29.0000	3.0000	3.0000	2.0000	.250	.250	EE542215	542290
21.6250	27.2500	3.1875	3.1875	2.4375	.250	.250	L476549	L476510
22.0000	29.0000	3.0000	3.0000	2.0000	.250	.250	EE542220	542290
22.0000	29.0000	3.4688	3.4688	2.5000	.250	.250	EE843220	843290
22.0000	29.0000	4.1250	4.1250	3.1875	.250	.250	LM377449	LM377410
22.0000	35.4950	5.3125	5.0937	4.0000	.500	.250	EE327220	327355
23.0000	27.0000	1.9375	1.9375	1.3750	.140	.125	LL778149	LL778110
23.0000	35.5000	5.0663	5.5000	4.2500	.312	.375	EE662303	663550
23.5000	27.0000	1.2500	1.2500	1.0000	.140	.125	EE680235	680270
23.7380	31.0000	3.6875	3.6875	2.7500	.250	.250	EE649237	649310
23.9260	31.0000	3.6875	3.6875	2.7500	.250	.250	EE649239	649310
23.9880	32.0000	3.2500	3.2500	2.3750	.250	.250	EE743239	743320
24.0000	30.0000	3.7500	3.6250	2.8125	.250	.250	L879947	L879910
24.0000	30.5000	3.3750	3.1250	2.3750	.250	.250	L580049	L580010
24.0000	31.0000	3.6875	3.6875	2.7500	.250	.250	EE649240	649310
24.0000	32.0000	3.2500	3.2500	2.3750	.250	.250	EE743240	743320
24.2500	27.8750	1.6250	1.6250	1.1562	.140	.125	LL580049	LL580010
25.0000	29.0000	2.2500	2.1250	1.6250	.125	.125	EE80780	80720
26.0000	33.6250	3.3750	3.3649	2.3750	.375	.250	EE749260	749336
26.0000	37.0000	5.3750	5.0000	3.8750	.250	.250	EE538260	538370
26.5000	31.2500	2.6250	2.4375	1.9375	.250	.250	LL481448	LL481411
27.0000	34.5000	3.6875	3.6250	2.7500	.250	.250	EE655270	655345
27.5000	32.2500	2.5000	2.5000	2.0000	.125	.125	LL382149	LL382110
28.0000	36.0000	3.3750	3.2500	2.3750	.250	.250	EE755280	755360
28.5000	36.0000	3.3125	3.1875	2.3750	.125	.250	EE755285	755360
29.5000	38.0000	3.6875	3.1875	2.6250	.250	.125	EE752295	752380
30.0000	35.0000	2.5000	2.5000	2.0000	.125	.125	EE175301	175350
30.0000	35.0000	2.7500	2.7500	2.0000	.125	.125	EE175300	175350
30.0000	38.0000	3.6875	3.1875	2.6250	.250	.125	EE752300	752380
30.5000	38.0000	3.6875	3.1875	2.2650	.250	.125	EE752305	EE752380
32.5000	41.0000	3.6875	3.5000	2.6250	.250	.250	EE763325	763410
32.9375	41.0000	3.6875	3.5000	2.6250	.250	.250	EE763329	763410
33.0000	41.0000	3.6875	3.5000	2.6250	.250	.250	EE763330	763410
33.7500	43.0000	4.7500	4.3750	3.0000	.750	.250	EE157337	157430
38.5000	44.5000	2.6250	2.5000	1.8750	.250	.250	LL687949	LL687910
39.9375	50.0000	4.0000	4.0000	2.6250	.375	.375	EE168399	168500
40.0000	50.0000	4.0000	4.0000	2.6250	.375	.375	EE168400	168500
45.5000	56.5000	4.7500	4.7500	3.7500	.250	.250	EE277455	277565
61.5000	71.1250	5.0000	4.8750	3.3750	.375	.375	EE299615	299711
66.5000	72.6250	2.6875	2.6875	1.6875	.250	.250	LL789749	LL789710

TIMKEN® BEARINGS
REGISTERED TRADE MARK
THE TIMKEN ROLLER BEARING COMPANY**single-row steep angle – type TSS**

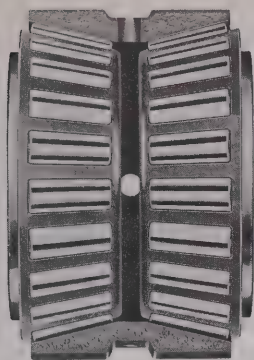
ARRANGED BY BORE DIAMETERS



bore A	outside diam. B	width C	cone length D	cup length E	cone radius R	cup radius F	part number	
							cone	cup
.6250	1.6875	.5625	.5625	.3750	.062	.062	11590	11520
.7500	2.1250	.8750	.8598	.6250	.062	.015	21075	21213
.7500	2.1250	.8750	.8598	.6250	.062	.093	21075	21212
.9375	2.5625	.8750	.8450	.6250	.062	.062	23092	23256
1.0000	2.5625	.8750	.8450	.6250	.062	.062	23100	23256
1.0000	2.8593	.9688	.9550	.6875	.093	.062	41100	41286
1.0625	2.8593	.9688	.9550	.6875	.093	.062	41106	41286
1.1250	2.8593	.9688	.9550	.6875	.062	.062	41126	41286
1.1250	2.8593	.9688	.9550	.6875	.187	.062	41125	41286
1.1250	3.1250	1.0000	.9478	.6875	.031	.062	43312	43312
1.1805	3.1250	1.0000	.9478	.6875	.062	.062	43317	43312
1.1875	3.1250	1.0000	.9478	.6875	.062	.062	43318	43312
1.2500	3.1250	1.0000	.9478	.6875	.062	.062	43325	43312
1.3125	3.1250	1.0000	.9478	.6875	.078	.062	43332	43312
1.3125	3.1250	1.0000	.9478	.6875	.140	.062	43331	43312
1.3125	3.4843	1.0000	.9330	.6875	.078	.062	44131	44348
1.4375	3.4843	1.0000	.9330	.6875	.093	.062	44143	44348
1.5000	3.4843	1.0000	.9330	.6875	.093	.062	44150	44348
1.5000	3.7500	1.2188	1.1142	.8125	.062	.031	53150	53375
1.5000	3.7500	1.2188	1.1142	.8125	.062	.031	53150	53387
1.5000	4.0000	1.2188	1.1142	.8125	.062	.031	53150	53398
1.5625	3.4843	1.0000	.9330	.6875	.093	.062	44156	44348
1.5625	3.4843	1.0000	.9330	.6875	.140	.062	44158	44348
1.5748	3.4843	1.0000	.9330	.6875	.093	.062	44157	44348
1.6250	3.4843	1.0000	.9330	.6875	.093	.062	44162	44348
1.6250	3.6250	1.0313	.9375	.6563	.140	.062	M903345	M903310
1.6250	3.7500	1.2188	1.1142	.8125	.062	.031	53162	53375
1.6250	3.7500	1.2188	1.1142	.8125	.062	.031	53162	53387
1.6250	3.7500	1.2188	1.1142	.8125	.062	.062	53387X	53375
1.6250	4.0000	1.2188	1.1142	.8125	.062	.031	53162	53398
1.7500	3.7500	1.2188	1.1142	.8125	.046	.031	53176	53387
1.7500	3.7500	1.2188	1.1142	.8125	.078	.031	53178	53387
1.7500	3.7500	1.2188	1.1142	.8125	.140	.031	53177	53387
1.7500	3.7500	1.2188	1.1142	.8125	.046	.062	53176	53387
1.7500	3.7500	1.2188	1.1142	.8125	.078	.062	53178	53387
1.7500	3.7500	1.2188	1.1142	.8125	.140	.031	53177	53387
1.7500	3.7500	1.2188	1.1142	.8125	.140	.062	53177	53387X
1.7500	4.0000	1.2188	1.1142	.8125	.046	.031	53176	53398
1.7500	4.0000	1.2188	1.1142	.8125	.078	.031	53178	53398
1.7500	4.0000	1.2188	1.1142	.8125	.140	.031	53177	53398
1.7500	4.3750	1.1875	1.0594	.8125	.031	.125	†55176	55437
1.7500	4.3750	1.1875	1.0594	.8125	.140	.125	55175	55437
1.7500	4.3750	1.1875	1.0594	.8125	.031	.125	†55176	55443
1.7500	4.3750	1.1875	1.0594	.8125	.140	.125	55175	55443
1.8750	4.3750	1.1875	1.0594	.8125	.140	.125	55187	55437
1.8750	4.3750	1.1875	1.0594	.8125	.140	.125	55187	55443
1.8750	4.6250	1.3125	1.2500	.9375	.140	.031	66187	66461
1.8750	4.6250	1.3125	1.2500	.9375	.140	.125	66187	66462
1.8750	4.8750	1.4375	1.2910	1.0000	.031	.125	72188	72487
1.8750	4.8750	1.4375	1.2910	1.0000	.140	.125	72187	72487
1.8750	5.0000	1.4375	1.2910	1.0000	.031	.125	72188	72500
1.9675	4.3750	1.1875	1.0594	.8125	.080	.125	55197	55437
1.9675	4.3750	1.1875	1.0594	.8125	.140	.125	55196	55437
1.9675	4.3750	1.1875	1.0594	.8125	.080	.125	55197	55443
1.9675	4.3750	1.1875	1.0594	.8125	.140	.125	55196	55443
2.0000	4.3750	1.1875	1.0594	.8125	.140	.125	55200	55437
2.0000	4.3750	1.1875	1.0594	.8125	.140	.125	55200	55443
2.0000	4.6250	1.3125	1.2500	.9375	.140	.031	66200	66461
2.0000	4.6250	1.3125	1.2500	.9375	.140	.125	66200	66462
2.0000	4.8750	1.4375	1.2910	1.0000	.140	.125	72200	72487
2.0000	5.0000	1.4375	1.2910	1.0000	.140	.125	72200	72500
2.0625	4.3750	1.1875	1.0594	.8125	.140	.125	55206	55437
2.0625	4.3750	1.1875	1.0594	.8125	.140	.125	55206	55443
2.1250	4.6250	1.3125	1.2500	.9375	.140	.031	66212	66461

†Cone front face radius .062".

bore A	outside diam. B	width C	cone length D	cup length E	cone radius R	cup radius F	part number	
							cone	cup
2.1250	4.6250	1.3125	1.2500	.9375	.140	.125	66212	66462
2.1250	4.8125	1.3125	1.2500	.9375	.140	.125	66584	66520
2.1250	4.8750	1.4375	1.2910	1.0000	.140	.125	72212	72487
2.1250	5.0000	1.4375	1.2910	1.0000	.140	.125	72212	72500
2.1250	5.1250	1.4375	1.3125	.9375	.140	.125	HM911242	HM911210
2.1250	5.3750	1.4375	1.3085	.9260	.031	.125	†78214	78537
2.1250	5.3750	1.4375	1.3085	.9260	.140	.125	78215	78537
2.1250	5.5130	1.4375	1.3085	.9260	.031	.093	†78214	78551
2.1250	5.5130	1.4375	1.3085	.9260	.140	.093	78215	78551
2.1875	4.8750	1.4375	1.2910	1.0000	.140	.125	72218	72487
2.1875	5.0000	1.4375	1.2910	1.0000	.140	.125	72218	72500
2.2500	4.6250	1.3125	1.2500	.9375	.140	.031	66225	66461
2.2500	4.6250	1.3125	1.2500	.9375	.140	.125	66225	66462
2.2500	4.8125	1.3125	1.2500	.9375	.140	.125	66587	66520
2.2500	5.3750	1.4375	1.3085	.9260	.140	.125	78225	78537
2.2500	5.5130	1.4375	1.3085	.9260	.140	.093	78225	78551
2.3611	4.8125	1.3125	1.2500	.9375	.031	.125	66589	66520
2.3613	4.8125	1.3125	1.2500	.9375	.062	.125	66586	66520
2.3622	4.8125	1.3125	1.2500	.9375	.031	.125	66588	66520
2.3622	4.8125	1.3125	1.2500	.9375	.140	.125	66585	66520
2.3750	5.1250	1.4375	1.3125	.9375	.203	.125	HM911245	HM911210
2.3750	5.3750	1.4375	1.3085	.9260	.203	.125	78238	78537
2.3750	5.5130	1.4375	1.3085	.9260	.203	.093	78238	78551
2.4375	5.1250	1.4375	1.3125	.9375	.140	.125	HM911249	HM911210
2.4375	5.7500	1.6250	1.5625	1.0000	.140	.125	H913842	H913810
2.4375	6.0000	1.8750	1.8125	1.2500	.031	.125	9181	9121
2.4375	6.0000	1.8750	1.8125	1.2500	.140	.125	9180	9121
2.5000	5.3750	1.4375	1.3085	.9260	.093	.125	78250	78537
2.5000	5.5130	1.4375	1.3085	.9260	.093	.093	78250	78551
2.6875	6.0000	1.8750	1.8125	1.2500	.140	.125	9185	9121
2.6875	6.3750	1.9375	1.8125	1.2500	.140	.125	9278	9220
2.7500	5.7500	1.6250	1.5625	1.0000	.140	.125	H913849	H913810
3.0000	6.3750	1.9375	1.8125	1.2500	.140	.125	9285	9220
3.0000	6.7500	1.9375	1.8125	1.2500	.140	.125	9380	9321
3.1496	7.8740	2.0772	1.9375	1.3750	.140	.125	98316	98788
3.3125	6.7500	1.9375	1.8125	1.2500	.140	.125	9385	9321
3.3465	7.8740	2.0772	1.9375	1.3750	.140	.125	98335	98788
3.5000	7.8740	2.0772	1.9375	1.3750	.140	.125	98350	98788
3.8125	7.4375	2.0000	1.8125	1.2500	.140	.125	90381	90744
4.0000	7.8740	2.0772	1.9375	1.3750	.140	.125	98400	98788
4.0000	9.8750	3.0000	2.8750	2.0000	.250	.125	EE215040	215096
4.0000	9.8750	3.0000	2.8750	2.0000	.250	.125	HM923649	HM923611
4.0000	9.8750	3.0000	2.8750	2.0000	.250	.250	EE215040	215098
4.0000	9.8750	3.0000	2.8750	2.0000	.250	.250	HM923649	HM923610
4.2500	6.2500	.9063	.8440	.6250	.140	.125	37425	37625
4.3125	6.2500	.9063	.8440	.6250	.140	.125	37341	37625
4.3750	8.4375	2.1875	2.0625	1.5625	.140	.125	H924045	H924010
4.5000	9.0000	2.1250	1.9460	1.5000	.140	.125	97450	97900
4.5000	9.0000	2.1250	1.9460	1.5000	.140	.125	HM926740	HM926710
4.5000	10.7500	3.2500	3.2500	2.1250	.250	.250	HM926744	HM926710
4.5000	11.0000	3.2500	3.2500	2.1250	.250	.250	HM926744	HM926716
4.7500	10.7500	3.2500	3.2500	2.1250	.250	.250	HM926749	HM926710
4.7500	11.0000	3.2500	3.2500	2.1250	.250	.250	HM926749	HM926716
4.9330	9.0000	2.1250	1.9460	1.5000	.140	.125	97493	97900
4.9330	9.0000	2.1250	1.9460	1.5000	.140	.125	HM926750	HM926710
5.0000	9.0000	2.1250	1.9460	1.5000	.140	.125	97500	97900
5.0000	9.0000	2.1250	1.9460	1.5000	.140	.125	HM926747	HM926710</

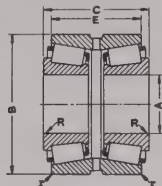


TIMKEN® BEARINGS

REGISTERED TRADE MARK
THE TIMKEN ROLLER BEARING COMPANY

two-row double cup, single cones – type TDO

ARRANGED BY BORE DIAMETERS

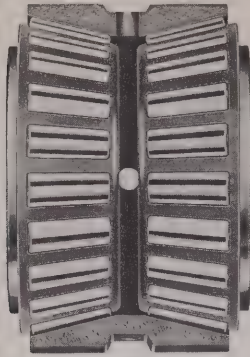
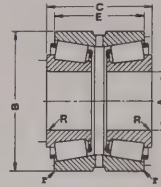


A	B	width		cone radius R	cup radius r	part number	
		through cones C	over cup E			cone	cup
.4375	1.3775	.9911	.8125	.046	.031	A4044	A4138D
.5000	1.3775	.9911	.8125	.046	.031	A4050	A4138D
.5900	1.3775	.9911	.8125	.031	.031	A4059	A4138D
.6250	1.8504	1.2500	.9926	.062	.031	05062	05185D
.6690	1.8504	1.2500	.9926	.062	.031	05066	05185D
.7500	1.8504	1.2500	.9926	.046	.031	05075	05185D
.7870	1.8504	1.2500	.9926	.062	.031	05079	05185D
.7874	1.9687	1.3126	1.0000	.062	.031	07079	07196D
.8750	1.9687	1.3126	1.0000	.046	.031	07087	07196D
.9375	1.9687	1.3126	1.0000	.062	.031	07093	07196D
.9375	2.8125	1.6875	1.4375	.093	.015	26093	26282D
.9375	2.8338	1.6835	1.4375	.093	.031	26093	26284D
.9835	1.9687	1.3126	1.0000	.062	.031	07098	07196D
.9835	2.4410	1.5625	1.4275	.062	.031	17098	17245D
.9842	1.9687	1.3126	1.0000	.062	.031	07097	07196D
1.0000	1.9687	1.3126	1.0000	.040	.031	07100	07196D
1.0000	2.5000	1.8125	1.4375	.031	.031	15101	15251D
1.0000	2.5000	1.8125	1.4375	.062	.031	15102	15251D
1.0000	2.5000	1.8125	1.4375	.140	.031	15100	15251D
1.0000	2.8125	1.6875	1.4375	.062	.015	26100	26282D
1.0000	2.8338	1.6835	1.4375	.062	.031	26100	26284D
1.0298	2.5000	1.8125	1.4375	.031	.031	15103	15251D
1.0625	2.5000	1.8125	1.4375	.031	.031	15106	15251D
1.1250	2.5000	1.8125	1.4375	.031	.031	15113	15251D
1.1250	2.5000	1.8125	1.4375	.140	.031	15112	15251D
1.1250	2.6150	1.7500	1.5000	.062	.031	24112	24262D
1.1250	2.7500	2.6250	2.2500	.093	.031	2578	2523D
1.1250	2.8125	1.6875	1.4375	.062	.015	26112	26282D
1.1250	2.8338	1.6835	1.4375	.062	.031	26112	26284D
1.1250	3.0000	1.8750	1.5000	.031	.031	02872	02823D
1.1805	2.4410	1.5625	1.4275	.062	.031	17118	17245D
1.1805	2.5000	1.8125	1.4375	.046	.031	15117	15251D
1.1805	2.8125	1.6875	1.4375	.062	.015	26118	26282D
1.1805	2.8338	1.6835	1.4375	.062	.031	26118	26284D
1.1810	2.7170	1.8126	1.5000	.140	.031	14117A	14276D
1.1810	2.7500	2.6250	2.2500	.140	.031	2586	2523D
1.1855	2.5000	1.8125	1.4375	.031	.031	15116	15251D
1.1875	3.2125	1.2812	.9688	.140	.015	08118	08231D
1.1875	2.4410	1.5625	1.4275	.062	.031	17119	17245D
1.1875	2.6150	1.7500	1.5000	.062	.031	24118	24262D
1.1875	2.7500	2.6250	2.2500	.031	.031	2559	2523D
1.1875	2.7500	2.6250	2.2500	.093	.031	2558	2523D
1.1875	3.1510	1.8126	1.3750	.062	.031	28118	28318D
1.1875	3.2500	2.6251	2.1875	.031	.031	3474	3423D
1.1895	2.5000	1.8125	1.4375	.031	.031	15120	15251D
1.1895	2.5000	1.8125	1.4375	.060	.031	15119	15251D
1.1895	2.5000	1.8125	1.4375	.140	.031	15118	15251D
1.1900	2.7170	1.8126	1.5000	.031	.031	14116	14276D
1.2500	3.2125	1.2812	.9688	.040	.015	08125	08231D
1.2500	2.5000	1.7425	1.4375	Spec.	.031	15123	15251D
1.2500	2.5000	1.8125	1.4375	.031	.031	15126	15251D
1.2500	2.5000	1.8125	1.4375	.140	.031	15125	15251D
1.2500	2.7170	1.8126	1.5000	.031	.031	14124	14276D
1.2500	2.7170	1.8126	1.5000	.140	.031	14125A	14276D
1.2500	2.7500	2.6250	2.2500	.031	.031	2580	2523D
1.2500	2.7500	2.6250	2.2500	.140	.031	2582	2523D
1.2500	3.0000	1.8750	1.5000	.031	.031	02876	02823D
1.2500	3.0000	1.8750	1.5000	.140	.031	02875	02823D
1.2500	3.2500	2.6251	2.1875	.046	.031	3476	3423D
1.2500	3.7500	2.4376	2.0000	.031	.031	443	432D
1.2600	2.8125	1.6875	1.4375	.062	.015	26126	26282D
1.2600	2.8338	1.6835	1.4375	.062	.031	26126	26284D
1.3125	2.7170	1.8126	1.5000	.031	.031	14131	14276D
1.3125	2.7170	1.8126	1.5000	.140	.031	14130	14276D

A	B	width		cone radius R	cup radius r	part number	
		through cones C	over cup E			cone	cup
1.3125	2.7500	2.6250	2.2500	.031	.031	2581	2523D
1.3125	2.7500	2.6250	2.2500	.140	.031	2585	2523D
1.3125	2.8125	1.6875	1.4375	.062	.015	26132	26282D
1.3125	2.8125	1.6875	1.4375	.140	.015	26131	26282D
1.3125	2.8338	1.6835	1.4375	.062	.031	26132	26284D
1.3125	2.8338	1.6835	1.4375	.140	.031	26131	26284D
1.3125	3.2500	2.6251	2.1875	.031	.031	3483	3423D
1.3125	3.2500	2.6251	2.1875	.140	.031	3477	3423D
1.3750	2.7170	1.8126	1.5000	.062	.031	14137A	14276D
1.3750	2.7170	1.8126	1.5000	.140	.031	14138A	14276D
1.3750	3.0000	1.8750	1.5000	.031	.031	02878	02823D
1.3750	3.0000	1.8750	1.5000	.140	.031	02877	02823D
1.3750	3.1510	1.8126	1.3750	.062	.031	28137	28318D
1.3750	3.1510	2.2500	1.7700	.031	.025	27875	27820D
1.3750	3.2500	2.6251	2.1875	.031	.031	3482	3423D
1.3750	3.2500	2.6251	2.1875	.140	.031	3478	3423D
1.3750	3.7500	2.4376	2.0000	.031	.031	449	432D
1.3770	2.7170	1.8126	1.5000	.046	.031	14139	14276D
1.3770	3.1510	1.8126	1.3750	.062	.031	28138	28318D
1.3779	3.7500	2.4376	2.0000	.140	.031	441	432D
1.3780	3.2500	2.6251	2.1875	.062	.031	3480	3423D
1.4375	2.7170	1.8124	1.5000	.140	.031	13682	13621D
1.4375	3.2500	2.6251	2.1875	.031	.031	3479	3423D
1.4375	3.2650	2.2500	1.8750	.140	.031	25570	25520D
1.5000	2.5000	1.5000	1.2500	.062	.015	13889	13835D
1.5000	2.7170	1.8124	1.5000	.078	.031	13687	13621D
1.5000	2.7170	1.8124	1.5000	.140	.031	13685	13621D
1.5000	3.1510	1.8126	1.3750	.062	.031	28150	28318D
1.5000	3.1510	1.8126	1.3750	.140	.031	28151	28318D
1.5000	3.1510	2.2500	1.7700	.031	.025	27880	27820D
1.5000	3.1510	2.2500	1.7700	.140	.025	27881	27820D
1.5000	3.2500	2.6251	2.1875	.140	.031	3490	3423D
1.5000	3.2650	2.2500	1.8750	.031	.031	25572	25520D
1.5000	3.7500	2.4376	2.0000	.031	.031	440	432D
1.5000	3.7500	2.4376	2.0000	.140	.031	444	432D
1.5000	3.7500	2.5000	2.0624	.140	.031	33880	33821D
1.5000	4.3750	3.1250	2.5000	.140	.062	542	533D
1.5150	2.5000	1.5000	1.2500	.015	.015	13890	13835D
1.5625	3.6718	2.5625	2.0625	.140	.031	3774	3729D
1.5740	3.1510	1.8126	1.3750	.140	.031	28159	28318D
1.5748	3.1510	1.8126	1.3750	.062	.031	28158	28318D
1.5748	3.5480	2.0000	1.7500	.031	.031	350A	353D
1.5748	3.5480	2.0000	1.7500	.093	.031	357	353D
1.5748	3.5480	2.0000	1.7500	.156	.031	350	353D
1.5748	3.7500	2.4376	2.0000	.140	.031	4425	432D
1.5748	4.3750	3.1250	2.5000	.140	.062	543	533D
1.6250	3.0000	1.9375	1.5625	.140	.031	24780	24720D
1.6250	3.5433	1.9689	1.6563	.140	.031	365A	363D
1.6250	3.5433	2.0001	1.6875	.140	.031	365A	364XD
1.6250	3.7500	2.4376	2.0000	.046	.031	439	432D
1.6250	3.7500	2.4376	2.0000	.140	.031	447	432D
1.6250	4.2500	2.5626	2.1250	.062	.031	464A	452D
1.6250	4.2500	2.5626	2.1250	.093	.031	464	452D
1.6250	4.3750	3.1250	2.5000	.140	.062	541	533D
1.6870	4.2500	2.5626	2.1250	.031	.031	461	452D
1.6875	3.2500	1.7500	1.3750	.090	.031	22168	22325D
1.6875	3.2650	2.2500	1.8750	.090	.031	25578	25520D
1.6875	3.2650	2.2500	1.8750	.140	.031	25576	25520D
1.6880	3.2650	2.2500	1.8750	.140	.031	25577	25520D
1.7500	3.1250	1.6249	1.3125	.109	.031	18685	18620D
1.7500	3.2650	2.2500	1.8750	.015	.031	25581	25520D
1.7500	3.2650	2.2500	1.8750	.140	.031	25580	25520D
1.7500	3.5480	2.0000	1.7500	.031	.031	355A	353D
1.7500	3.5480	2.0000	1.7500	.093	.031	355	353D

fine oil holes or channel.

Continued next page

**TIMKEN® BEARINGS**REGISTERED TRADE MARK
THE TIMKEN ROLLER BEARING COMPANY**two-row double cup, single cones – type TDO****ARRANGED BY BORE DIAMETERS****(Continued)**

bore A	outside diam. B	width		cone radius R	cup radius r	part number	
		through cones C	over cup E			cone	cup
1.7500	3.5480	2.0000	1.7500	.140	.031	355X	353D
1.7500	3.6718	2.5625	2.0625	.140	.031	3782	3729D
1.7500	3.6718	2.5625	2.0625	.250	.031	3783	3729D
1.7500	3.7500	2.4376	2.0000	.031	.031	435	432D
1.7500	3.7500	2.4376	2.0000	.140	.031	438	432D
1.7500	3.7500	2.5000	2.0624	.031	.031	3388S	33821D
1.7500	4.2500	2.5626	2.1250	.031	.031	458	452D
1.7500	4.2500	2.5626	2.1250	.140	.031	460	452D
1.7500	4.3750	3.1250	2.5000	.140	.062	535	533D
1.7710	3.2650	2.2500	1.8750	.062	.031	25584	25520D
1.7710	3.6718	2.5625	2.0625	.140	.031	3776	3729D
1.7716	3.5433	1.9689	1.6563	.078	.031	367	363D
1.7716	3.5433	2.0001	1.6875	.078	.031	367	364XD
1.7716	3.5480	2.0000	1.7500	.062	.031	358	353D
1.7716	3.5480	2.0000	1.7500	.140	.031	358A	353D
1.7716	4.2500	2.5626	2.1250	.093	.031	458S	452D
1.7960	3.2650	2.2500	1.8750	.140	.031	25590	25520D
1.8125	3.1250	1.6249	1.3125	.109	.031	18690	18620D
1.8125	3.5480	2.0000	1.7500	.093	.031	359S	353D
1.8125	3.5480	2.0000	1.7500	.140	.031	359A	353D
1.8125	3.6718	2.5625	2.0625	.140	.031	3777	3729D
1.8125	3.7500	2.4376	2.0000	.140	.031	436	432D
1.8750	3.5433	1.9689	1.6563	.093	.031	369S	363D
1.8750	3.5433	1.9689	1.6563	.140	.031	369A	363D
1.8750	3.5433	2.0001	1.6875	.093	.031	369S	364XD
1.8750	3.5433	2.0001	1.6875	.140	.031	369A	364XD
1.8750	3.6718	2.5625	2.0625	.140	.031	3779	3729D
1.8750	3.6718	2.5625	2.0625	.250	.031	3778	3729D
1.8750	3.9370	1.9370	1.5620	.031	.031	386A	384ED
1.8750	3.9370	2.0625	1.6875	.031	.031	386A	384D
1.8750	4.2500	2.5626	2.1250	.031	.031	467	452D
1.8750	4.2500	2.5626	2.1250	.187	.031	463	452D
1.8750	4.3750	3.1250	2.5000	.140	.062	536	533D
1.9060	3.6718	2.5625	2.0625	.140	.031	3781A	3729D
1.9375	3.5433	1.9689	1.6563	.031	.031	365S	363D
1.9375	3.5433	2.0001	1.6875	.031	.031	365S	364XD
1.9375	3.6718	2.5625	2.0625	.140	.031	3781	3729D
1.9375	4.3750	3.1250	2.5000	.140	.062	545	533D
1.9678	4.3750	3.1250	2.5000	.140	.062	546	533D
1.9685	3.5433	1.9689	1.6563	.078	.031	365	363D
1.9685	3.5433	1.9689	1.6563	.093	.031	366	363D
1.9685	3.5433	2.0001	1.6875	.078	.031	365	364XD
1.9685	3.5433	2.0001	1.6875	.093	.031	366	364XD
1.9685	4.2500	2.5626	2.1250	.093	.031	465	452D
1.9685	4.2500	2.5626	2.1250	.140	.031	465A	452D
1.9685	4.3307	2.0625	1.8125	.031	.031	396	394D
2.0000	3.5433	1.9689	1.6563	.062	.031	368	363D
2.0000	3.5433	1.9689	1.6563	.140	.031	368A	363D
2.0000	3.5433	1.9689	1.6563	.203	.031	370A	363D
2.0000	3.5433	2.0001	1.6875	.062	.031	368	364XD
2.0000	3.5433	2.0001	1.6875	.140	.031	368A	364XD
2.0000	3.5433	2.0001	1.6875	.203	.031	370A	364XD
2.0000	3.6718	2.5625	2.0625	.031	.031	3775	3729D
2.0000	3.6718	2.5625	2.0625	.140	.031	3780	3729D
2.0000	3.6718	2.5625	2.0625	.250	.031	3784	3729D
2.0000	3.7500	2.5000	2.0624	.140	.031	33889	33821D
2.0000	3.9370	1.9370	1.5620	.031	.031	385AX	384ED
2.0000	3.9370	1.9370	1.5620	.062	.031	385AS	384ED
2.0000	3.9370	1.9370	1.5620	.093	.031	385A	384ED
2.0000	3.9370	2.0625	1.6875	.031	.031	385AX	384D
2.0000	3.9370	2.0625	1.6875	.062	.031	385AS	384D
2.0000	3.9370	2.0625	1.6875	.093	.031	385A	384D
2.0000	4.2500	2.5626	2.1250	.031	.031	455	452D
2.0000	4.2500	2.5626	2.1250	.140	.031	455S	452D
2.0000	4.3750	3.1250	2.5000	.140	.062	537	533D
2.0000	4.3307	2.0625	1.8125	.031	.031	398	394D
2.0000	4.8750	3.1250	2.5000	.093	.062	555	552D
2.0312	3.5433	1.9689	1.6563	.078	.031	368S	363D

bore A	outside diam. B	width		cone radius R	cup radius r	part number	
		through cones C	over cup E			cone	cup
2.0312	3.5433	2.0001	1.6875	.078	.031	368S	364XD
2.0625	3.6718	2.5625	2.0625	.093	.031	3767	3729D
2.0625	3.7500	2.5000	2.0624	.062	.031	33890	33821D
2.0625	3.7500	2.5000	2.0624	.140	.031	33891	33821D
2.0625	4.2500	2.5626	2.1250	.062	.031	468	452D
2.0625	4.3750	3.1250	2.5000	.140	.062	540	533D
2.1250	3.6250	1.6563	1.3437	.062	.031	L50794S	L507914D
2.1250	3.7500	2.5000	2.0624	.062	.031	3389S	33821D
2.1250	3.9370	1.9370	1.5620	.031	.031	389A	384ED
2.1250	3.9370	1.9370	1.5620	.062	.031	389AS	384ED
2.1250	3.9370	2.0625	1.6875	.031	.031	389A	384D
2.1250	3.9370	2.0625	1.6875	.062	.031	389AS	384D
2.1250	4.2500	2.5626	2.1250	.140	.031	456	452D
2.1250	4.3750	3.1250	2.5000	.140	.062	539	533D
2.1250	4.3750	3.1250	2.5000	.218	.062	539A	533D
2.1250	4.8750	3.1250	2.5000	.140	.062	557S	552D
2.1250	5.3750	3.7500	3.0000	.140	.062	636	632D
2.1650	4.2500	2.5626	2.1250	.093	.031	466	452D
2.1653	3.9370	1.9370	1.5620	.093	.031	385	384ED
2.1653	3.9370	1.9370	1.5620	.140	.031	385X	384ED
2.1653	3.9370	2.0625	1.6875	.093	.031	385	384D
2.1653	3.9370	2.0625	1.6875	.140	.031	385X	384D
2.1653	4.7244	2.5626	2.1250	.031	.031	475	472D
2.1875	4.2500	2.5626	2.1250	.093	.031	466S	452D
2.1880	3.9370	1.9370	1.5620	.093	.031	389	384ED
2.1880	3.9370	2.0625	1.6875	.093	.031	389	384D
2.2500	3.6250	1.6563	1.3437	.062	.031	L50794S	L507914D
2.2500	3.9370	1.9370	1.5620	.031	.031	387S	384ED
2.2500	3.9370	1.9370	1.5620	.093	.031	387	384ED
2.2500	3.9370	1.9370	1.5620	.140	.031	387A	384ED
2.2500	3.9370	1.9370	1.5620	.203	.031	387AS	384ED
2.2500	3.9370	2.0625	1.6875	.031	.031	387S	384D
2.2500	3.9370	2.0625	1.6875	.093	.031	387	384D
2.2500	3.9370	2.0625	1.6875	.140	.031	387A	384D
2.2500	3.9370	2.0625	1.6875	.203	.031	387AS	384D
2.2500	4.2500	2.5626	2.1250	.093	.031	462	452D
2.2500	4.2500	2.5626	2.1250	.140	.031	469	452D
2.2500	4.3307	2.0625	1.8125	.093	.031	390	394D
2.2500	4.8750	3.1250	2.5000	.140	.062	555S	552D
2.2500	4.8750	3.1250	2.5000	.312	.062	555SA	552D
2.2500	5.3750	3.7500	3.0000	.140	.062	635	632D
2.2650	3.9370	1.9370	1.5620	.140	.031	388A	384ED
2.2650	3.9370	2.0625	1.6875	.140	.031	388A	384D
2.3613	3.9370	2.1874	1.7500	.140	.031	28980	28921D
2.3622	4.3307	2.0625	1.8125	.031	.031	397	394D
2.3622	4.7244	2.5626	2.1250	.062	.031	476A	472D
2.3622	4.7244	2.5626	2.1250	.078	.031	476	472D
2.3750	3.9370	2.1874	1.7500	.140	.031	2898S	28921D
2.3750	4.8750	3.1250	2.5000	.093	.062	558	552D
2.3750	4.8750	3.1250	2.5000	.140	.062	558A	552D
2.3750	4.8750	3.1250	2.5000	.312	.062	557A	552D
2.3750	5.3750	3.7500	3.0000	.140	.062	637	632D
2.4375	4.3307	2.0625	1.8125	.031	.031	392	394D
2.4375	4.8750	3.1250	2.5000	.140	.062	554	552D
2.5000	4.3307	2.0625	1.8125	.062	.031	390A	394D
2.5000	4.3307	2.0625	1.8125	.140	.031	395	394D
2.5000	4.7244	2.5626	2.1250	.031	.031	477	472D
2.5000	4.7244	2.5626	2.1250	.140	.031	483	472D
2.5000	4.8750	3.1250	2.5000	.140	.062	559	552D
2.5000	5.0000	3.1875	2.5625	.140	.062	565	563D
2.5000	5.0000	3.1875	2.5625	.250	.062	565S	563D
2.5000	5.3750	3.7500	3.0000	.140	.062	639	632D
2.5000	6.1250	4.0000	3.3750	.140	.062	745S	742D
2.5575	6.1250	4.0000	3.3750	.140	.062	747S	742D
2.5576	5.0000	3.1875	2.5625	.140	.062	569	563D
2.5591	4.7244	2.5626	2.1250	.093	.031	478	472D
2.6250	4.3307	2.0625	1.8125	.031	.031	395A	394D
2.6250	4.3307	2.0625	1.8125	.140	.031	395S	394D

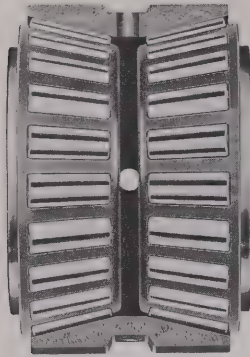
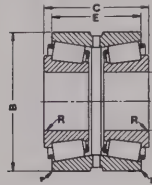
fine all holes or channel.

Continued next page

NEED HELP ON BEARINGS—CALL US

TIMKEN BEARINGS—TWO-ROW DOUBLE CUP, SINGLE CONES—TYPE TDO (Cont'd)

bore A	outside diam. B	width		cone radius R	cup radius r	part number	
		through cones C	over cup E			cone	cup
2.6250	4.7244	2.5626	2.1250	.093	.031	479	472D
2.6250	4.8750	3.1250	2.5000	.140	.062	560	552D
2.6250	5.3750	3.7500	3.0000	.140	.062	641	632D
2.6875	4.3307	2.0625	1.8125	.093	.031	399A	394D
2.6875	4.3307	2.0625	1.8125	.203	.031	399A5	394D
2.6875	4.7244	2.5626	2.1250	.140	.031	480	472D
2.6875	4.8750	3.1250	2.5000	.140	.062	5605	552D
2.6875	5.0000	3.1875	2.5625	.140	.062	570	563D
2.6875	5.3750	3.7500	3.0000	.140	.062	642	632D
2.7500	4.4995	2.3125	1.8125	.062	.031	29675	29622D
2.7500	4.7244	2.5626	2.1250	.140	.031	482	472D
2.7500	5.0000	3.1875	2.5625	.031	.062	5665	563D
2.7500	5.0000	3.1875	2.5625	.140	.062	566	563D
2.7500	5.3750	3.7500	3.0000	.140	.062	643	632D
2.7500	6.0000	3.7500	3.0000	.140	.062	655	654D
2.7500	6.1250	4.0000	3.3750	.140	.062	745A	742D
2.7500	6.1250	4.0000	3.3750	.203	.062	744A	742D
2.7500	6.7500	4.9375	3.9375	.140	.031	835	834D
2.7559	4.7244	2.5626	2.1250	.080	.031	484	472D
2.7810	4.4995	2.3125	1.8125	.046	.031	29680	29622D
2.7810	4.4995	2.3125	1.8125	.140	.031	29681	29622D
2.8125	5.0000	3.1875	2.5625	.140	.062	567A	563D
2.8125	5.0000	3.1875	2.5625	.250	.062	5675	563D
2.8125	5.3750	2.7500	2.1250	.140	.031	4955	493D
2.8125	5.3750	3.7500	3.0000	.140	.062	644	632D
2.8125	5.3750	3.7500	3.0000	.250	.062	645	632D
2.8750	4.4995	2.3125	1.8125	.140	.031	29685	29622D
2.8750	5.0000	3.1875	2.5625	.140	.062	567	563D
2.8750	5.1115	3.2500	2.6250	.140	.031	576	572D
2.8750	6.0000	3.7500	3.0000	.140	.062	657	654D
2.8750	6.1250	4.0000	3.3750	.140	.062	744	742D
2.8750	6.3750	4.1250	3.3750	.140	.062	762	752D
2.9062	5.0000	3.1875	2.5625	.031	.062	568	563D
2.9375	5.1115	3.2500	2.6250	.140	.031	577	572D
2.9375	6.0000	3.7500	3.0000	.140	.062	658	654D
3.0000	5.3750	2.7500	2.1250	.140	.031	495A	493D
3.0000	5.3750	2.7500	2.1250	.250	.031	495AX	493D
3.0000	5.5115	3.2500	2.6250	.140	.031	575	572D
3.0000	5.5115	3.2500	2.6250	.265	.031	5755	572D
3.0000	6.0000	3.2500	2.5000	.140	.031	590A	592D
3.0000	6.0000	3.7500	3.0000	.140	.062	659	654D
3.0000	6.1250	4.0000	3.3750	.140	.062	7485	742D
3.0000	6.3750	4.1250	3.3750	.140	.062	755	752D
3.0000	6.7500	4.9375	3.9375	.031	.031	837	834D
3.0000	6.7500	4.9375	3.9375	.250	.031	843	834D
3.0000	7.5000	5.0000	4.1250	.140	.062	HH221430	HH221410D
3.0625	5.3750	2.7500	2.1250	.140	.031	495A5	493D
3.1250	6.0000	3.2500	2.5000	.140	.031	595A	592D
3.1250	6.0000	3.7500	3.0000	.140	.062	661	654D
3.1250	6.1250	4.0000	3.3750	.140	.062	750	742D
3.1250	7.5000	5.0000	4.1250	.140	.062	HH221431	HH221410D
3.1490	5.5115	3.2500	2.6250	.140	.031	578	572D
3.1490	6.0000	3.2500	2.5000	.140	.031	590	592D
3.1875	5.3750	2.7500	2.1250	.140	.031	496	493D
3.1875	5.5115	3.2500	2.6250	.140	.031	581	572D
3.1875	6.1250	4.0000	3.3750	.203	.062	740	742D
3.1875	6.7500	4.9375	3.9375	.031	.031	838	834D
3.2500	4.5625	1.8750	1.5626	.062	.031	L116149	L116110D
3.2500	5.3750	2.7500	2.1250	.140	.031	495	493D
3.2500	5.5115	3.2500	2.6250	.140	.031	580	572D
3.2500	5.5115	3.2500	2.6250	.265	.031	582	572D
3.2500	6.0000	3.2500	2.5000	.140	.031	595	592D
3.2500	6.0000	3.7500	3.0000	.140	.062	663	654D
3.2500	6.0000	3.7500	3.0000	.265	.062	663A	654D
3.2500	6.1250	4.0000	3.3750	.140	.062	749A	742D
3.2500	6.1250	4.0000	3.3750	.265	.062	750A	742D
3.2500	6.3750	4.1250	3.3750	.140	.062	757	752D
3.2500	6.7500	4.9375	3.9375	.031	.031	839	834D
3.2500	6.7500	4.9375	3.9375	.140	.031	842	834D
3.3125	5.3750	2.7500	2.1250	.140	.031	498	493D
3.3125	6.0000	3.7500	3.0000	.140	.062	664	654D
3.3475	6.1250	4.0000	3.3750	.140	.062	749	742D
3.3475	6.1250	4.0000	3.3750	.203	.062	7495	742D
3.3750	5.3750	2.7500	2.1250	.140	.031	497	493D
3.3750	6.0000	3.2500	2.5000	.140	.031	596	592D
3.3750	6.0000	3.7500	3.0000	.140	.062	665	654D
3.3750	6.3750	4.1250	3.3750	.140	.062	758	752D
3.3750	6.6250	3.6250	2.7500	.140	.031	677	672D
3.3750	6.7500	4.9375	3.9375	.140	.031	841	834D
3.4375	4.8750	1.9999	1.6875	.062	.031	L217847	L217810D
3.4375	6.0000	3.2500	2.5000	.140	.031	5965	592D
3.4375	7.5000	5.0000	4.1250	.312	.062	HH221432	HH221410D
3.4375	7.5000	5.0000	4.0000	.312	.062	869	854D
3.4630	5.8750	2.6249	2.0625	.120	.031	42346	42587D
3.5000	4.8750	1.9999	1.6875	.062	.031	L217849	L217810D
3.5000	5.8750	2.6249	2.0625	.120	.031	42350	42587D
3.5000	6.0000	3.2500	2.5000	.140	.031	593	592D
3.5000	6.0000	3.2500	2.5000	.250	.031	593A	592D
3.5000	6.3750	4.1250	3.3750	.140	.062	759	752D
3.5000	6.3750	4.1250	3.3750	.281	.062	766	752D
3.5000	6.6250	3.6250	2.7500	.140	.031	679	672D
3.5000	6.7500	4.9375	3.9375	.140	.031	850	834D
3.5000	7.0866	4.1250	3.3750	.187	.031	775	773D
3.5000	7.1250	4.1250	3.3750	.187	.062	775	774D
3.5000	7.5000	5.0000	4.1250	.312	.062	HH221434	HH221410D
3.5000	7.5000	5.0000	4.0000	.312	.062	855	854D
3.5075	6.0000	3.2500	2.5000	.140	.031	5935	592D
3.5390	6.7500	4.9375	3.9375	.140	.031	850A	834D
3.5625	6.3750	4.1250	3.3750	.140	.062	760	752D
3.6250	5.8750	2.6249	2.0625	.140	.031	42362	42587D
3.6250	6.0000	3.2500	2.5000	.140	.031	598	592D
3.6250	6.0000	3.2500	2.5000	.250	.031	598A	592D
3.6250	6.6250	3.6250	2.7500	.140	.031	681	672D
3.6250	6.6250	3.6250	2.7500	.250	.031	681A	672D
3.6250	7.0866	4.1250	3.3750	.140	.031	778	773D
3.6250	7.1250	4.1250	3.3750	.140	.062	778	774D
3.6250	7.5000	5.0000	4.1250	.312	.062	HH221438	HH221410D
3.6250	7.5000	5.0000	4.0000	.312	.062	857	854D
3.6875	5.8750	2.6249	2.0625	.120	.031	42368	42587D
3.6875	6.0000	3.2500	2.5000	.140	.031	597	592D
3.7392	7.5000	5.0000	4.0000	.140	.062	867A	854D
3.7500	5.8750	2.6249	2.0625	.120	.031	42375	42587D
3.7500	5.8750	2.6249	2.0625	.140	.031	42376	42587D
3.7500	6.0000	3.2500	2.5000	.140	.031	594	592D
3.7500	6.0000	3.2500	2.5000	.203	.031	594A	592D
3.7500	6.3750	3.2499	2.4375	.140	.031	52375	52637D
3.7500	6.6250	3.6250	2.7500	.140	.031	683	672D
3.7500	7.0866	4.1250	3.3750	.140	.031	776	773D
3.7500	7.0866	4.1250	3.3750	.375	.031	777	773D
3.7500	7.1250	4.1250	3.3750	.140	.062	776	774D
3.7500	7.1250	4.1250	3.3750	.375	.062	777	774D
3.7500	7.5000	5.0000	4.1250	.312	.062	HH221440	HH221410D
3.7500	7.5000	5.0000	4.0000	.312	.062	864	854D
3.8125	5.8750	2.6249	2.0625	.140	.031	42381	42587D
3.8750	6.3750	3.2499	2.4375	.140	.031	52387	52637D
3.8750	6.6250	3.6250	2.7500	.140	.031	685	672D
3.8750	7.0866	4.1250	3.3750	.140	.031	779	773D
3.8750	7.1250	4.1250	3.3750	.140	.062	779	774D
3.8750	7.5000	5.0000	4.1250	.140	.062	HH221442	HH221410D
3.8750	7.5000	5.0000	4.0000	.140	.062	866	854D
3.8750	8.3750	5.6250	4.6250	.140	.062	HH224332	HH224310D
3.8750	8.3750	5.6250	4.6250	.140	.062	943	932D
3.9360	8.3750	5.6250	4.6250	.140	.062	HH224334	HH224310D
3.9360	8.3750	5.6250	4.6250	.140	.062	944A	932D
3.9363	7.5000	5.0000	4.1250	.250	.062	HH221447	HH221410D
3.9370	7.0866	4.1250	3.3750	.140	.031	783	773D
3.9370	7.1250	4.1250	3.3750	.140	.062	783	774D
3.9370	7.5000	5.0000	4.0000	.236	.062	863X	854D
3.9375	6.3750	3.2499	2.4375	.140	.031	52393	52637D
4.0000	5.7500	1.9375	1.5625	.062	.031	L521945	L521910D
4.0000	6.3750	3.2499	2.4375	.140	.031	52400	52637D
4.0000	6.6250	3.6250	2.7500	.140	.031	687	672D
4.0000	7						

**TIMKEN® BEARINGS**REGISTERED TRADE MARK
THE TIMKEN ROLLER BEARING COMPANY**two-row double cup, single cones – type TDO****ARRANGED BY BORE DIAMETERS****(Continued)**

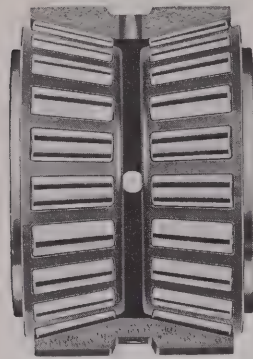
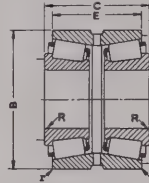
bore A	outside diam. B	width		cone radius R	cup radius r	part number	
		through cones C	over cup E			cone	cup
4.5000	7.0000	3.6250	2.7500	.140	.031	64450	64700D
4.5000	7.5000	4.1875	3.1875	.140	.062	71450	71751D
4.5000	8.3750	5.6250	4.6250	.281	.062	HM224346	HM224310D
4.5000	8.3750	5.6250	4.6250	.281	.062	938	932D
4.5266	8.3750	5.6250	4.6250	.281	.062	HM224349	HM224310D
4.5310	7.5000	4.1875	3.1875	.140	.062	71453	71751D
4.5310	7.5000	4.1875	3.1875	.312	.062	71455	71751D
4.7235	6.8750	3.0625	2.4375	.140	.031	M224748	M224710D
4.7500	8.1250	4.2500	3.2500	.125	.031	795	792D
4.7500	9.2500	5.6250	4.5000	.250	.062	95475	95927D
4.7500	19.8750	4.8750	3.5000	.250	.031	EE341048	341098XD
4.7500	10.1875	7.0000	5.3750	.375	.062	EE153044	153103D
4.8750	7.1875	3.3750	2.8750	.140	.031	48286	48220D
4.8750	10.1875	7.0000	5.3750	.375	.062	EE153049	153103D
4.9190	9.2500	5.6250	4.5000	.250	.062	95491	95927D
5.0000	7.1875	3.3750	2.8750	.140	.031	48290	48220D
5.0000	7.7500	4.0000	3.3750	.140	.031	67388	67322D
5.0000	7.8750	4.0000	3.3750	.140	.031	67388	67325D
5.0000	8.5000	4.1875	3.1875	.140	.062	74500	74851D
5.0000	9.2500	5.6250	4.5000	.250	.062	95500	95927D
5.0000	10.1875	7.0000	5.3750	.375	.062	EE153050	153103D
5.0000	11.6250	7.5000	5.7500	.250	.062	EE455051	455118XD
5.0000	12.0000	5.3438	3.8438	.250	.062	EE750502	751204D
5.0625	8.1250	4.2500	3.2500	.125	.031	799	792D
5.1181	8.1250	4.2500	3.2500	.140	.031	797	792D
5.1250	7.7500	4.0000	3.3750	.140	.031	67389	67322D
5.1250	7.8750	4.0000	3.3750	.140	.031	67389	67325D
5.1250	8.1250	4.2500	3.2500	.140	.031	799A	792D
5.2500	6.9688	2.2500	1.8750	.062	.031	L327249	L327210D
5.2500	7.5000	3.3750	2.8750	.140	.031	48385	48320D
5.2500	7.7500	4.0000	3.3750	.140	.031	67390	67322D
5.2500	7.7500	4.0000	3.3750	.312	.031	67391	67322D
5.2500	7.8750	4.0000	3.3750	.140	.031	67390	67325D
5.2500	7.8750	4.0000	3.3750	.312	.031	67391	67325D
5.2500	8.5000	4.1875	3.1875	.140	.062	74525	74851D
5.2500	9.2500	5.6250	4.5000	.187	.062	95528	95927D
5.2500	9.2500	5.6250	4.5000	.375	.062	95525	95927D
5.3750	7.5000	3.3750	2.8750	.140	.031	48393	48320D
5.3750	8.5000	4.1875	3.1875	.140	.062	74537	74851D
5.3750	10.0000	5.8750	4.3750	.281	.062	99537	99102D
5.3750	10.0000	6.0000	4.5000	.281	.062	99537	99101D
5.5000	8.5000	4.1875	3.1875	.140	.062	74550	74851D
5.5000	8.7500	2.9800	2.1250	.140	.093	73551	73876D
5.5000	9.3125	5.1875	4.1875	.140	.062	HM231132	HM231111D
5.5000	9.3125	5.1875	4.1875	.140	.062	82550	82932D
5.5000	9.5000	5.1875	4.1875	.140	.062	HM231132	HM231116D
5.5000	9.5000	5.1875	4.1875	.140	.062	82550	82951D
5.5000	10.0000	5.8750	4.3750	.281	.062	99550	99102D
5.5000	10.0000	6.0000	4.5000	.281	.062	99550	99101D
5.5000	12.0000	5.3438	3.8438	.125	.062	EE750558	751204D
5.5000	12.0000	5.3438	3.8438	.250	.062	EE750562	751204D
5.5000	12.1250	7.8750	6.1250	.375	.093	HM234031	HM234011D
5.5000	12.1250	7.8750	6.1250	.375	.093	HM234032	HM234011D
5.5000	12.1250	7.8750	6.1250	.375	.093	EE450551	451215D
5.6250	7.8750	3.4376	2.8750	.140	.031	48685	48620D
5.6250	7.8750	3.4376	2.8750	.312	.031	48684	48620D
5.6250	8.7500	2.9800	2.1250	.140	.093	73562	73876D
5.6250	9.3125	5.1875	4.1875	.140	.062	HM231136	HM231111D
5.6250	9.3125	5.1875	4.1875	.140	.062	82562	82932D
5.6250	9.5000	5.1875	4.1875	.140	.062	HM231136	HM231116D
5.6250	9.5000	5.1875	4.1875	.140	.062	82562	82951D
5.7500	7.6250	2.5624	2.1250	.062	.031	36690	36620D
5.7500	9.3125	5.1875	4.1875	.140	.062	HM231140	HM231111D
5.7500	9.3125	5.1875	4.1875	.140	.062	82576	82932D
5.7500	9.5000	5.1875	4.1875	.140	.062	HM231140	HM231116D
5.7500	9.5000	5.1875	4.1875	.140	.062	82576	82951D
5.7500	9.6250	4.2500	3.1250	.140	.062	81575	81963D
5.7500	10.0000	5.8750	4.3750	.281	.062	99575	99102D

bore A	outside diam. B	width		cone radius R	cup radius r	part number	
		through cones C	over cup E			cone	cup
5.7500	10.0000	6.0000	4.5000	.281	.062	99575	99101D
5.7500	10.5625	6.3125	4.9375	.250	.062	EE107057	107105D
5.7500	12.0000	5.3438	3.8438	.125	.062	EE750576	751204D
5.7500	12.0000	5.3438	3.8438	.250	.062	EE750577	751204D
5.7500	12.0000	5.3438	3.8438	.500	.062	EE750573	751204D
5.7500	12.1250	7.8750	6.1250	.375	.093	HM234040	HM234011D
5.7500	12.1250	7.8750	5.7500	.375	.093	EE450577	451215D
5.8750	9.3125	5.1875	4.1875	.140	.062	HM231149	HM231111D
5.8750	9.3125	5.1875	4.1875	.140	.062	82587	82932D
5.8750	9.5000	5.1875	4.1875	.140	.062	HM231149	HM231116D
5.8750	9.5000	5.1875	4.1875	.140	.062	82587	82951D
5.8750	10.0000	5.8750	4.3750	.281	.062	99587	99102D
5.8750	10.0000	6.0000	4.5000	.281	.062	99587	99101D
5.9055	9.6250	4.2500	3.1250	.140	.062	81590	81963D
5.9375	9.6250	4.2500	3.1250	.140	.062	81593	81963D
6.0000	8.7500	3.9374	3.0000	.140	.031	M231649	M231610D
6.0000	9.6250	4.2500	3.1250	.140	.062	81600	81963D
6.0000	10.0000	5.8750	4.3750	.281	.062	99600	99102D
6.0000	10.0000	6.0000	4.5000	.281	.062	99600	99101D
6.0000	10.5625	6.3125	4.9375	.250	.062	EE107060	107105D
6.0000	12.1250	7.8750	6.1250	.375	.093	HM234048	HM234011D
6.0000	12.1250	7.8750	6.1250	.375	.093	HM234049	HM234011D
6.0000	12.1250	7.8750	5.7500	.375	.093	EE450601	451215D
6.0625	9.6250	4.2500	3.1250	.140	.062	81606	81963D
6.2500	8.8750	3.3750	2.7500	.140	.031	46780	46720D
6.2500	12.0000	5.8204	3.8750	.250	.062	EE280626	281201D
6.2973	9.6250	4.2500	3.1250	.140	.062	81629	81963D
6.3120	11.3750	5.6250	4.3750	.281	.062	HM237532	HM237510D
6.3120	11.3750	5.7500	4.5000	.281	.062	HM237532	HM237511XD
6.5000	8.5000	2.3126	1.8750	.062	.031	L433749	L433710D
6.5000	8.8750	3.3750	2.7500	.140	.031	46790	46720D
6.5000	8.8750	3.3750	2.7500	.312	.031	46790A	46720D
6.5000	9.7500	4.0625	3.3125	.140	.031	67780	67720D
6.5000	10.0000	4.0000	3.0000	.187	.062	M235145	M235113D
6.5000	11.3750	5.6250	4.3750	.281	.062	HM237535	HM237510D
6.5000	11.3750	5.6250	4.3750	.281	.062	94649	94114D
6.5000	11.3750	5.7500	4.5000	.281	.062	HM237535	HM237511XD
6.5000	11.7500	5.6250	4.3750	.281	.062	94649	94118D
6.5000	13.6875	5.7500	4.2500	.375	.062	EE618065	618136D
6.5000	13.7500	5.5000	3.8750	.187	.062	EE780655	781376D
6.6250	9.7500	4.0625	3.3125	.140	.031	67782	67720D
6.6929	10.0000	4.0000	3.0000	.187	.062	M235149	M235113D
6.7500	11.3750	5.6250	4.3750	.281	.062	94675	94114D
6.7500	11.7500	5.6250	4.3750	.281	.062	94675	94118D
6.7500	13.7500	5.5000	3.8750	.187	.062	EE780676	781376D
6.8750	9.7500	4.0625	3.3125	.140	.031	67787	67720D
6.8750	11.3750	5.6250	4.3750	.281	.062	HM237542	HM237510D
6.8750	11.3750	5.6250	4.3750	.281	.062	94687	94114D
6.8750	11.3750	5.7500	4.5000	.281	.062	HM237542	HM237511XD
6.8750	11.7500	5.6250	4.3750	.281	.062	94687	94118D
6.8750	13.7500	5.5000	3.8750	.187	.062	EE780688	781376D
6.9375	13.7500	5.5000	3.8750	.187	.062	EE780694	781376D
7.0000	8.9375	2.6249	2.0625	.062	.031	36990	36920D
7.0000	9.7500	4.0625	3.3125	.140	.031	67790	67720D
7.0000	9.7500	4.0625	3.3125	.406	.031	67791	67720D
7.0000	10.6250	4.6875	3.6875	.140	.062	M238840	M238810D
7.0000	11.2500	5.3750	3.6250	.250	.062	EE91702	91113XD
7.0000	11.3750	5.6250	4.3750	.281	.062	HM237545	HM237510D
7.0000	11.3750	5.6250	4.3750	.281	.062	94700	94114D
7.0000	11.3750	5.7500	4.5000	.281	.062	HM237545	HM237511XD
7.0000	11.7500	5.6250	4.3750	.281	.062	94700	94118D
7.0000	12.0000	5.8204	3.8750	.250	.062	EE280702	281201D
7.0000	12.6250	7.3125	5.4375	.140	.062	H239640	H239612D
7.0000	12.6250	7.3125	5.4375	.140	.062	EE222070	222127D
7.0000	13.7500	5.5000	3.8750	.187	.062	EE780705	781376D
7.0000	13.7500	5.5000	3.8750	.500	.062	EE780706	781376D
7.0000	14.5000	7.6250	5.3750	.500	.062	EE420701	421451D
7.0855	12.5000	5.7500	4.3750	.140	.062	93708	93127D

TIMKEN BEARINGS—TWO-ROW DOUBLE CUP, SINGLE CONES—TYPE TDO (Cont'd)

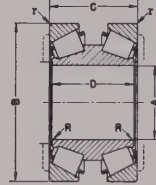
bore A	outside diam. B	width		cone radius R	cup radius r	part number	
		through cones C	over cup E			cone	cup
7.0855	12.5975	5.7500	4.3750	.140	.062	93708	93128XD
7.2500	9.3125	2.1874	1.6250	.062	.031	LL537649	LL537610D
7.2500	10.5000	4.0625	3.3125	.140	.031	67883	67820D
7.3750	10.5000	4.0625	3.3125	.140	.031	67884	67820D
7.3750	10.6250	4.6875	3.6875	.140	.062	M238849	M238810D
7.3750	11.1250	4.2500	3.1250	.140	.062	87737	87112D
7.3750	12.6250	7.3125	5.4375	.218	.062	H239649	H239612D
7.5000	10.5000	4.0625	3.3125	.140	.031	67885	67820D
7.5000	11.1250	4.2500	3.1250	.140	.062	87750	87112D
7.5000	12.5000	5.7500	4.3750	.171	.062	93750	93127D
7.5000	12.5975	5.7500	4.3750	.171	.062	93750	93128XD
7.5000	13.0000	5.5000	3.8750	.281	.062	EE210753	211301XD
7.5000	14.5000	7.6250	5.3750	.250	.062	EE420751	421451D
7.6250	11.1250	4.2500	3.1250	.140	.062	87762	87112D
7.7500	10.0000	2.4374	1.8750	.062	.031	L540049	L540010D
7.7500	10.1250	3.3750	2.6250	.140	.031	LM739710	739710D
7.7500	12.5000	5.7500	4.3750	.171	.062	93775	93127D
7.7500	12.5975	5.7500	4.3750	.171	.062	93775	93128XD
7.7500	12.5000	5.7500	4.3750	.171	.062	93787	93127D
7.7500	12.5975	5.7500	4.3750	.171	.062	93787	93128XD
7.8750	14.0000	6.0000	4.3750	.265	.062	EE130787	131401D
7.8750	14.0000	6.2500	4.6250	.265	.031	EE130787	131402D
7.8750	15.1250	9.3750	7.6250	.250	.062	H247535	H247510D
7.9375	14.5000	7.6250	5.3750	.125	.062	EE420793	421451D
8.0000	10.8750	3.5624	2.8750	.140	.031	LM241149	LM241110D
8.0000	11.1250	4.0000	3.2500	.140	.031	67920	67920D
8.0000	12.5000	5.0000	3.5000	.156	.062	EE132083	132126D
8.0000	12.5000	5.7500	4.3750	.171	.062	93800	93127D
8.0000	12.5000	5.7500	4.3750	.171	.062	93800A	93127D
8.0000	12.5975	5.7500	4.3750	.171	.062	93800	93128XD
8.0000	12.5975	5.7500	4.3750	.171	.062	93800A	93128XD
8.0000	14.5000	7.6250	5.3750	.125	.062	EE420801	421451D
8.1250	11.1250	4.0000	3.2500	.140	.031	67985	67920D
8.1250	12.5000	5.0000	3.5000	.156	.062	EE132084	132126D
8.1250	13.2500	8.3125	6.6875	.125	.062	H242649	H242610D
8.2500	12.5000	5.7500	4.3750	.171	.062	93825	93127D
8.2500	12.5000	5.7500	4.3750	.171	.062	93825A	93127D
8.2500	12.5975	5.7500	4.3750	.171	.062	93825	93128XD
8.2500	12.5975	5.7500	4.3750	.171	.062	93825A	93128XD
8.2500	13.1250	5.8750	4.5000	.250	.062	HM743345	HM743310D
8.3750	11.2500	3.8750	3.0000	.140	.031	LM742745	LM742710D
8.5000	11.2500	3.8750	3.0000	.140	.031	LM742749	LM742710D
8.5000	11.3125	2.7500	2.0000	.140	.031	543085	543115D
8.5000	14.0000	6.0000	4.3750	.265	.062	EE130851	131401D
8.5000	14.0000	6.2500	4.6250	.265	.031	EE130851	131402D
8.5000	16.0000	7.6875	5.8125	.250	.062	EE820085	820161D
8.6602	11.3125	2.7500	2.0000	.140	.031	543086	543115D
8.6875	12.3750	5.1875	4.1875	.250	.062	M244249	M244210D
8.8750	14.0000	6.0000	4.3750	.265	.062	EE130889	131401D
8.8750	14.0000	6.2500	4.6250	.265	.031	EE130889	131402D
8.8750	15.7500	7.3750	5.3750	.062	.062	EE430888	431576D
9.0000	12.8750	4.5000	3.2500	.250	.062	EE8573	8520D
9.0000	14.0000	6.0000	4.5000	.250	.062	HM746646	HM746610D
9.0000	14.0000	6.0000	4.3750	.265	.062	EE130902	131401D
9.0000	14.0000	6.2500	4.6250	.265	.031	EE130902	131402D
9.0000	15.7500	7.3750	5.3750	.062	.062	EE430900	431576D
9.0000	15.7500	7.3750	5.3750	.781	.062	EE430902	431576D
9.0000	16.7500	8.2500	6.2500	.281	.062	EE700091	700168D
9.2500	12.8750	4.5000	3.2500	.250	.062	EE8575	8520D
9.2500	15.1250	9.3750	7.6250	.250	.062	H247549	H247510D
9.2500	15.1250	9.3750	7.6250	.250	.062	H247548	H247510D
9.5000	12.8750	4.5000	3.2500	.250	.062	EE8578	8520D
9.5000	13.7460	5.0000	4.0000	.250	.062	EE127095	127136D
9.5000	13.8125	5.0000	4.0000	.250	.062	EE127095	127137D
9.5000	13.9960	5.0000	4.0000	.250	.062	EE127095	127139D
9.5000	14.5000	4.7500	3.3750	.250	.062	EE170950	171451D
9.5000	15.5000	6.1875	4.3125	.250	.062	EE275095	275156D
9.5000	16.0000	6.1250	4.2500	.250	.062	EE275095	275161D
9.5000	17.5000	8.2500	6.2500	.250	.062	EE923095	923176D
9.5000	16.0000	8.5000	7.2500	.250	.062	H249111D	H249111D
9.5000	19.2500	10.0000	7.7500	.250	.062	EE295950	295192D
9.6250	14.9960	6.7500	5.0000	.250	.062	EE126097	126149D
9.6250	15.0000	6.7500	5.0000	.250	.062	EE126097	126151D
9.7500	14.5000	4.7500	3.3750	.250	.062	EE170975	171451D
9.7500	23.7500	14.0000	11.0000	.250	.125	EE515097	515238XD
9.8130	14.9960	6.7500	5.0000	.250	.062	EE126098	126149D
9.8130	15.0000	6.7500	5.0000	.250	.062	EE126098	126151D
10.0000	12.7500	2.5000	2.0000	.062	.031	29875	29820D
10.0000	13.6875	3.7500	2.7500	.140	.062	LM249748	LM249710D
10.0000	14.1250	6.0000	4.6250	.140	.062	M249749	M249710D
10.0000	14.3750	5.1250	3.8750	.250	.062	EE134100	134144D
10.0000	15.5000	6.1875	4.3125	.250	.062	EE275100	275156D
10.0000	16.0000	6.1250	4.2500	.250	.062	EE275100	275161D
10.0000	16.6250	6.8125	5.0625	.265	.062	HM252343	HM252311D

bore A	outside diam. B	width		cone radius R	cup radius r	part number	
		through cones C	over cup E			cone	cup
10.0000	16.6250	6.8125	5.0625	.265	.062	HM252344	HM252311D
10.0000	16.6250	6.8125	5.0625	.265	.062	EE51002	551664XD
10.0000	16.6250	7.0312	5.5000	.265	.062	HM252343	HM252310D
10.0000	16.6250	7.0312	5.5000	.265	.062	HM252344	HM252310D
10.0000	16.6250	7.0312	5.5000	.265	.062	EE51002	551663D
10.0000	16.9970	6.8125	5.0625	.265	.062	HM252343	HM252310D
10.0000	16.9970	6.8125	5.0625	.265	.062	HM252344	HM252310D
10.0000	16.9970	6.8125	5.0625	.265	.062	EE51002	551701D
10.0000	17.5000	6.5000	4.5000	.250	.062	EE822100	822176D
10.0000	19.5000	6.3876	4.7500	.250	.062	EE941002	941951XD
10.0000	19.5000	6.6376	5.0000	.250	.062	EE941002	941953D
10.1875	15.7500	6.1250	4.2500	.375	.062	EE221018	221576D
10.2500	14.3750	5.1250	3.8750	.250	.062	EE134102	134144D
10.2500	15.7500	6.1250	4.2500	.375	.062	EE221026	221576D
10.2500	16.0000	5.8750	4.6250	.125	.062	EE128102	128160D
10.2500	16.6250	6.8125	5.0625	.265	.062	HM252348	HM252311D
10.2500	16.6250	6.8125	5.0625	.265	.062	HM252349	HM252311D
10.2500	16.6250	6.8125	5.0625	.265	.062	EE51026	551664XD
10.2500	16.6250	6.8125	5.0625	.265	.062	EE51026	551663D
10.2500	16.6250	7.0312	5.5000	.265	.062	HM252348	HM252310D
10.2500	16.6250	7.0312	5.5000	.265	.062	HM252349	HM252310D
10.2500	16.6250	7.0312	5.5000	.265	.062	EE51026	551663D
10.2500	16.9970	6.8125	5.0625	.265	.062	HM252348	HM252310D
10.2500	16.9970	6.8125	5.0625	.265	.062	HM252349	HM252310D
10.2500	16.9970	6.8125	5.0625	.265	.062	EE51026	551701D
10.2500	19.2500	10.0000	7.7500	.250	.062	EE295102	295192D
10.3750	14.0000	5.0000	4.0000	.140	.062	76587	76520D
10.5000	12.7500	2.5000	2.0000	.062	.031	29880	29820D
10.5000	14.0000	5.0000	4.0000	.140	.062	76590	76520D
10.5000	15.5000	6.1875	4.3125	.250	.062	EE275105	275156D
10.5000	16.0000	6.1250	4.2500	.250	.062	EE275105	275161D
10.5000	16.6250	6.8125	5.0625	.265	.062	EE51050	551664XD
10.5000	16.6250	7.0312	5.5000	.265	.062	EE51050	551663D
10.5000	16.9970	6.8125	5.0625	.265	.062	EE51050	551701D
10.5000	16.9970	6.8125	5.0625	.265	.062	M252349	M252310D
10.5000	15.5000	6.1875	4.3125	.250	.062	M252349	275156D
10.5000	15.5000	6.1875	4.3125	.250	.062	EE275108	275161D
10.5000	16.0000	6.1250	4.2500	.250	.062	EE275108	275161D
11.0000	18.5000	7.8750	5.8750	.375	.062	EE722110	722186D
11.0000	19.2500	10.0000	7.7500	.046	.062	EE295110	295192D
11.0236	16.0000	5.8750	4.6250	.250	.062	EE128112	128160D
11.0236	16.0000	5.8750	4.6250	.250	.062	EE128114	128160D
11.0312	16.0000	4.7500	3.3750	.265	.062	EE101103	101601D
11.0312	16.0000	5.8750	4.6250	.265	.062	EE128111	128160D
11.0312	16.0000	5.8750	4.6250	.265	.062	EE128110	128160D
11.2500	14.1250	3.0000	2.1250	.140	.062	545112	545142D
11.2500	14.9960	5.5000	4.2500	.140	.062	LM654649	LM654

**TIMKEN® BEARINGS**REGISTERED TRADE MARK
THE TIMKEN ROLLER BEARING COMPANY**two-row double cup, single cones – type TDO****ARRANGED BY BORE DIAMETERS****(Continued)**

bore A	outside diam. B	width		cone radius R	cup radius r	part number	
		through cones C	over cup E			cone	cup
14.0000	20.2500	7.6250	6.0000	.250	.062	EE333140	333203D
14.5000	23.5000	8.0000	5.2500	.375	.093	EE181453	182351D
14.6250	19.7500	6.1250	4.2500	.250	.062	EE231462	231976D
14.6250	20.2500	6.1250	4.2500	.250	.062	EE231462	232026D
14.8750	20.0000	5.5000	3.5000	.250	.062	EE192148	192201D
15.0000	20.0000	5.5000	3.5000	.250	.062	EE192150	192201D
15.0000	21.5000	8.7500	7.0000	.250	.062	HM266447	HM266410D
15.1250	21.5000	8.7500	7.0000	.250	.062	HM266449	HM266410D
15.5000	21.2500	5.6250	4.0000	.250	.062	EE234154	234213D
15.5000	21.5000	6.2500	4.6250	.250	.062	EE234154	234216D
15.5000	22.0000	5.7500	4.1250	.250	.062	EE234154	234221D
15.5000	22.0570	5.7500	4.1250	.250	.062	EE234154	234223XD
15.6250	21.2500	5.6250	4.0000	.250	.062	EE234156	234213D
15.6250	21.5000	6.2500	4.6250	.250	.062	EE234156	234216D
15.6250	22.0000	5.7500	4.1250	.250	.062	EE234156	234221D
15.6250	22.0570	5.7500	4.1250	.250	.062	EE234156	234223XD
15.8550	21.2500	5.6250	4.0000	.250	.062	EE234159	234213D
15.8550	21.5000	6.2500	4.6250	.250	.062	EE234159	234216D
15.8550	22.0000	5.7500	4.1250	.250	.062	EE234159	234221D
15.8550	22.0570	5.7500	4.1250	.250	.062	EE234159	234223XD
16.0000	21.2500	5.6250	4.0000	.250	.062	EE234160	234213D
16.0000	21.5000	6.2500	4.6250	.250	.062	EE234160	234216D
16.0000	22.0000	5.7500	4.1250	.250	.062	EE234160	234221D
16.0000	22.0570	5.7500	4.1250	.250	.062	EE234160	234223XD
16.0000	22.6250	5.9375	3.9375	.265	.062	EE285160	285227XD
16.0000	22.6250	6.1875	4.1875	.265	.062	EE285160	285228D
16.0000	23.9970	7.0000	5.2500	.312	.062	EE736160	736239D
16.0000	24.0000	7.3750	4.8750	.265	.062	EE911600	912401D
16.0000	26.5000	7.5842	5.0000	.250	.062	EE571602	572651D
16.0000	26.5000	7.5842	6.0000	.250	.062	EE571602	572653D
16.1250	22.6250	5.9375	3.9375	.265	.062	EE285162	285227XD
16.1250	22.6250	6.1875	4.1875	.265	.062	EE285162	285228D
16.1875	24.0000	7.3750	4.8750	.265	.062	EE911618	912401D
16.3750	23.2500	9.6250	7.6250	.250	.062	M268710D	M268710D
16.7500	26.9960	12.2500	9.2500	.500	.125	EE328167	328268D
16.9375	23.7500	6.0350	3.8750	.250	.062	EE241693	242376D
16.9375	23.7500	6.2850	4.1250	.250	.062	EE241693	242377D
17.0000	23.7500	6.0350	3.8750	.250	.062	EE241701	242376D
17.0000	23.7500	6.2850	4.1250	.250	.062	EE241701	242377D
17.0000	26.5000	7.5842	5.0000	.250	.062	EE571703	572651D
17.0000	26.5000	7.5842	6.0000	.250	.062	EE571703	572653D
17.0000	26.5000	7.5842	6.0000	.500	.062	EE571704	572653D
17.3750	26.0000	7.6875	5.4375	.406	.062	EE737173	737261D
17.6250	25.0000	10.1250	8.1250	.250	.062	M270749	M270710D
18.0000	23.5000	6.5000	4.7500	.375	.062	EE244180	244236D
18.0000	26.0000	7.6875	5.4375	.406	.062	EE737181	737261D
18.0000	28.7460	10.0000	7.0000	.375	.062	EE671801	672875D
18.8750	26.7500	10.8750	8.7500	.250	.062	M272710D	M272710D
19.0000	24.2500	7.2500	5.7500	.250	.062	LM272249	LM272210D
19.0000	24.9950	7.0000	5.6250	.250	.062	EE243190	243251D
19.2390	26.0000	8.1250	6.2500	.250	.062	EE640191	640261D
19.2390	26.2470	8.1250	6.2500	.250	.062	EE640191	640262D
19.2500	24.9950	7.1250	5.3750	.250	.062	LM772710D	LM772710D
19.2500	26.0000	8.1250	6.2500	.250	.062	EE640192	640261D
19.2500	26.2470	8.1250	6.2500	.250	.062	EE640192	640262D
19.2530	24.9950	7.0000	5.6250	.250	.062	EE243192	243251D
19.6250	24.9950	7.0000	5.6250	.250	.062	EE243196	243251D
19.9200	29.0000	7.3426	4.5000	.250	.062	EE981992	982901D
20.0000	29.0000	7.3426	4.5000	.250	.062	EE982003	982901D
20.0000	33.0000	12.0000	8.7500	.375	.125	EE426200	426331D
20.2500	29.0000	7.3426	4.5000	.250	.062	EE982028	982901D
20.5000	29.0000	7.3426	4.5000	.250	.062	EE982051	982901D
21.0000	30.8750	7.5000	4.7500	.250	.062	EE522102	523088D
21.0000	32.0000	10.6250	7.3750	.375	.125	EE626210	626321D
21.5000	29.0000	6.5000	4.5000	.250	.125	EE542215	542291D
22.0000	29.0000	6.5000	4.5000	.250	.125	EE542220	542291D
22.0000	29.0000	7.3751	5.4375	.250	.062	EE843220	843291D

bore A	outside diam. B	width		cone radius R	cup radius r	part number	
		through cones C	over cup E			cone	cup
22.0000	29.0000	8.8750	7.0000	.250	.062	LM377449	LM377410D
22.0000	29.2500	7.3751	5.4375	.250	.062	EE843220	842292D
22.0000	33.5000	11.0000	8.3750	.500	.062	EE327220	327356XD
22.0000	35.0000	11.5000	8.3750	.500	.125	EE327220	327357D
22.2500	34.0000	12.5000	9.0000	.312	.125	EE929225	929341D
23.0000	35.0000	11.7501	8.4375	.312	.062	EE662303	663551D
23.7380	31.0000	8.1250	6.2500	.250	.062	EE649237	649311D
23.7380	31.2500	8.1250	6.2500	.250	.062	EE649237	649313D
23.9260	31.0000	8.1250	6.2500	.250	.062	EE649239	649311D
23.9260	31.2500	8.1250	6.2500	.250	.062	EE649239	649313D
23.9880	32.0000	7.5000	5.7500	.250	.125	EE743239	743321D
23.9880	32.4970	7.5000	5.7500	.250	.125	EE743239	743324D
24.0000	31.0000	8.1250	6.2500	.250	.062	EE649240	649311D
24.0000	31.2500	8.1250	6.2500	.250	.062	EE649240	649313D
24.0000	32.0000	7.5000	5.7500	.250	.125	EE743240	743321D
24.0000	32.4970	7.5000	5.7500	.250	.125	EE743240	743324D
27.0000	34.5000	7.8750	6.0000	.250	.062	EE55270	655346D
28.0000	36.0000	7.5000	5.5000	.250	.062	EE755280	755361D
28.5000	36.0000	7.3750	5.5000	.125	.062	EE755285	755361D
29.5000	38.0000	7.3750	5.2500	.250	.062	EE752295	752381D
30.0000	38.0000	7.3750	5.2500	.250	.062	EE752300	752381D
30.5000	38.0000	7.3750	5.2500	.250	.062	EE752305	752381D
32.0000	40.0000	7.5000	5.7500	.250	.062	EE676230	762401D
36.0000	42.0000	5.5000	4.0000	.250	.125	LL686947	LL686910D
38.5000	44.5000	5.5000	4.0000	.250	.125	LL687949	LL687910D
72.0000	179.0000	7.0000	4.8750	.250	.125	LL789949	LL789910XD

**two-row steep angle, double cone,
single cups – type TDIS****ARRANGED BY BORE DIAMETERS**

bore A	outside diam. B	width		cone radius R	cup radius r	part number	
		over cups C	thru cone D			cone	cup
2.1650	5.3750	2.6020	2.5980	.093	.125	78216D	78537
2.1650	5.5130	2.6020	2.5980	.093	.093	78216D	78551
2.5000	5.3750	2.6020	2.5980	.093	.125	78251D	78537
2.5000	5.5130	2.6020	2.5980	.093	.093	78251D	78551
2.5585	5.3750	2.6020	2.5980	.062	.125	78255D	78537
2.5585	5.5130	2.6020	2.5980	.062	.093	78255D	78551
5.0000	9.0000	6.3125	5.9545	.062	.125	97500D	97900
8.5000	14.0000	5.0000	5.1250	.250	.125	96851D	96140
9.0000	17.0000	6.2500	6.2500	.250	.250	EE113090D	113170
10.2500	16.5000	6.2500	6.1250	.125	.125	EE435103D	435165
10.8750	14.9960	4.1250	3.5000	.125	.250	89108D	89149
10.8750	15.0000	3.7500	3.5000	.125	.125	89108D	89148
10.8750	15.0000	4.3750	3.5000	.125	.250	89108D	89150
11.0000	14.9960	6.8750	6.0000	.062	.250	89110D	89149
11.0000	15.0000	6.5000	6.0000	.062	.125	89110D	89148
11.0000	15.0000	7.1250	6.0000	.062	.250	89110D	89150
11.0070	14.9960	4.1250	3.5000	.125	.250	89111D	89149
11.0070	15.0000	3.7500	3.5000	.125	.125	89111D	89148
11.0070	15.0000	4.3750	3.5000	.125	.250	89111D	89150

for oil holes or channel.

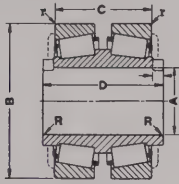
NEED HELP ON BEARINGS—CALL US

TIMKEN® BEARINGS

REGISTERED TRADE MARK
THE TIMKEN ROLLER BEARING COMPANY

two-row slotted double cone type TDIKE

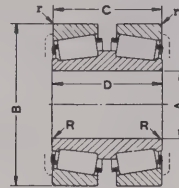
ARRANGED BY BORE DIAMETERS



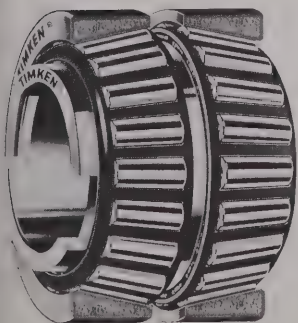
bore A	outside diam. B	width		cone radius R	cup radius r	part number	
		over cups C	thru cone D			cone	cup
.9375	1.9687	1.0648	1.4375	.031	.040	07094DW	07196
.9375	2.0470	1.1842	1.4375	.031	.046	07094DW	07204
1.0000	1.9687	1.0648	1.4375	.031	.040	07101DW	07196
1.0000	2.0470	1.1842	1.4375	.031	.046	07101DW	07204
1.1875	2.4410	1.3306	1.7500	.031	.062	17120DW	17244
1.2500	2.7148	1.5632	1.9370	.031	.125	14125DW	14274A
1.2500	2.7170	1.5632	1.9370	.031	.046	14125DW	14276
1.2500	2.7170	1.5632	1.9370	.031	.125	14125DW	14274
1.2500	2.7170	1.7632	1.9370	.031	.093	14125DW	14277
1.2500	2.8380	1.7632	1.9370	.031	.093	14125DW	14283
1.3125	2.7148	1.5632	1.9370	.031	.125	14133DW	14274A
1.3125	2.7170	1.5632	1.9370	.031	.046	14133DW	14276
1.3125	2.7170	1.5632	1.9370	.031	.125	14133DW	14274
1.3125	2.7170	1.7632	1.9370	.031	.093	14133DW	14277
1.3125	2.8380	1.7632	1.9370	.031	.093	14133DW	14283
1.3750	2.6875	1.4492	1.9370	.031	.060	19136DW	19268
1.3750	2.8125	1.4492	1.9370	.031	.040	19136DW	19281
1.3750	2.8345	1.5392	1.9370	.031	.062	19136DW	19283
1.4375	2.6875	1.4492	1.9370	.031	.060	19144DW	19268
1.4375	2.8125	1.4492	1.9370	.031	.040	19144DW	19281
1.4375	2.8345	1.5392	1.9370	.031	.062	19144DW	19283
1.5000	2.6875	1.4492	1.9370	.031	.060	19149DW	19268
1.5000	2.8125	1.4492	1.9370	.031	.040	19149DW	19281
1.5000	2.8345	1.5392	1.9370	.031	.062	19149DW	19283
1.6875	3.3464	1.9790	2.5620	.031	.046	357DW	354A
1.6875	3.5480	2.1650	2.5620	.031	.093	357DW	352
1.7500	3.3464	1.9790	2.5620	.078	.046	355DW	354A
1.7500	3.5480	2.1650	2.5620	.078	.093	355DW	352
1.8750	3.6718	1.9690	2.6570	.031	.046	376DW	374
1.8750	3.8125	2.0940	2.6570	.031	.062	376DW	372A
1.8750	3.9370	2.3124	2.6570	.031	.078	376DW	372
1.9375	3.6718	1.9690	2.6570	.031	.046	378DW	374
1.9375	3.8125	2.0940	2.6570	.031	.062	378DW	372A
1.9375	3.9370	2.3124	2.6570	.031	.078	378DW	372
1.9375	3.6718	1.9690	2.6570	.031	.046	378DW	372A
1.9375	3.8125	2.0940	2.6570	.031	.062	378DW	372
1.9375	3.9370	2.3124	2.6570	.031	.078	378DW	372
2.0000	3.6718	1.9690	2.6570	.031	.046	375DW	374
2.0000	3.8125	2.0940	2.6570	.031	.062	375DW	372A
2.0000	3.9370	2.3124	2.6570	.031	.078	375DW	372
2.0000	3.6718	1.9690	2.6570	.031	.046	375DW	372A
2.0000	3.8125	2.0940	2.6570	.031	.062	375DW	372
2.0000	3.9370	2.3124	2.6570	.031	.078	375DW	372
2.1875	3.8125	2.0196	2.7190	.031	.031	389DW	382A
2.1875	3.8750	2.0196	2.7190	.031	.031	389DW	382
2.1875	3.9370	2.0196	2.7190	.031	.078	389DW	383A
2.1875	3.9370	2.3660	2.7190	.031	.046	389DW	383X
2.4375	4.3307	2.1870	2.8750	.031	.046	392DW	394A
2.4375	4.3307	2.1870	2.8750	.031	.125	392DW	394AS
2.4375	4.3750	2.1870	2.8750	.031	.046	392DW	393AS
2.4375	4.4375	2.2048	2.8750	.031	.125	392DW	393A

two-row double cone, single cups type TDI

ARRANGED BY BORE DIAMETERS

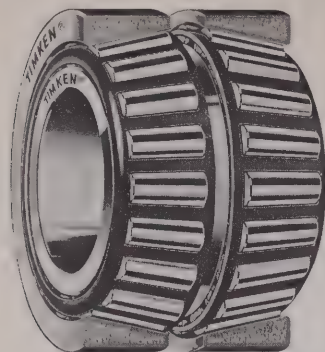
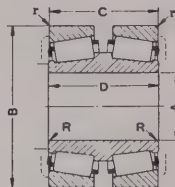


bore A	outside diam. B	width C	cone length D	cone radius R	cup radius r	part number	
						cone	cup
1.1875	2.4410	1.3306	1.3750	.031	.062	17116D	17244
1.2500	2.7148	1.5632	1.5426	.062	.125	14126D	14274A
1.2500	2.7170	1.5632	1.5426	.062	.046	14126D	14276
1.2500	2.7170	1.5632	1.5426	.062	.125	14126D	14274
1.2500	2.7170	1.7632	1.5426	.062	.093	14126D	14277
1.2500	2.8380	1.7632	1.5426	.062	.093	14126D	14283
1.3125	2.7148	1.5632	1.5426	.062	.125	14134D	14274A
1.3125	2.7170	1.5632	1.5426	.062	.046	14134D	14276
1.3125	2.7170	1.5632	1.5426	.062	.125	14134D	14277
1.3125	2.7170	1.7632	1.5426	.062	.093	14134D	14283
1.3125	2.8380	1.7632	1.5426	.062	.093	14134D	14283
1.4375	2.6875	1.4492	1.5000	.031	.060	19145D	19268
1.4375	2.8125	1.4492	1.5000	.031	.040	19145D	19281
1.4375	2.8345	1.5392	1.5000	.031	.062	19145D	19283
1.5000	2.6875	1.4492	1.9370	.031	.060	19152D	19268
1.5000	2.8125	1.4492	1.9370	.031	.040	19152D	19281
1.5000	2.8345	1.5392	1.9370	.031	.062	19152D	19283
1.6875	3.1875	1.3750	1.2500	.031	.062	1316D	13318
1.6875	3.3464	1.9790	2.0620	.062	.046	358D	354A
1.6875	3.5480	2.1650	2.0620	.062	.093	358D	352
1.7500	3.1875	1.3750	1.2500	.000	.062	13176D	13318
1.8125	3.1875	1.3750	1.2500	.031	.062	13182D	13318
1.8750	3.6718	1.9690	2.0940	.031	.046	376DE	374
1.8750	3.8125	2.0940	2.0940	.031	.062	376DE	372A
1.8750	3.9370	2.3124	2.0940	.031	.078	376DE	372
1.9375	3.6718	1.9690	2.0940	.031	.046	378DE	374
1.9375	3.8125	2.0940	2.0940	.031	.062	378DE	372A
1.9375	3.9370	2.3124	2.0940	.031	.078	378DE	372
2.0000	3.6718	1.9690	2.0940	.031	.046	375D	374
2.0000	3.8125	2.0940	2.0940	.031	.062	375D	372A
2.0000	3.9370	2.3124	2.0940	.031	.078	375D	372
2.1875	3.8125	2.0196	2.0940	.031	.031	389DE	382A
2.1875	3.8750	2.0196	2.0940	.031	.031	389DE	382
2.1875	3.9370	2.0196	2.0940	.031	.078	389DE	383A
2.1875	3.9370	2.3660	2.0940	.031	.046	389DE	383X
2.4375	4.3307	2.1870	2.1870	.031	.046	399D	394A
2.4375	4.3307	2.1870	2.1870	.031	.125	399D	394AS
2.4375	4.3750	2.1870	2.1870	.031	.046	399D	393A
2.5000	4.4375	2.3750	2.3750	.031	.125	39585D	39520
3.0000	6.2990	3.9980	4.2500	.140	.031	765D	752A
3.0000	6.3750	3.9980	4.2500	.140	.125	765D	752
3.0000	6.6250	3.9980	4.2500	.140	.125	765D	753
3.1875	5.2500	2.3750	2.3440	.062	.125	496D	492A
3.1875	5.3750	2.3750	2.3440	.062	.125	496D	492
3.1875	5.5115	3.1875	3.1549	.062	.125	581D	573
3.2165	5.2500	2.3750	2.3440	.078	.125	496DA	492A
3.2165	5.3750	2.3750	2.3440	.078	.125	496DA	493
3.3125	5.2500	3.0000	2.9690	.031	.125	498D	492A
3.3125	5.3750	3.0000	2.9690	.031	.125	498D	493
3.3750	4.8750	1.6251	1.7500	.031	.062	L217845D	L217810
3.3750	5.0000	1.6251	1.7500	.031	.062	L217845D	L217813
3.5000	6.2990	3.9980	4.2500	.062	.031	767D	752A
3.5000	6.3750	3.9980	4.2500	.062	.125	767D	752
3.5000	6.6250	3.9980	4.2500	.062	.125	767D	753
3.5000	7.5000	4.6250	5.0000	.375	.125	865D	854
3.5000	7.8750	5.0000	5.0000	.375	.125	865D	854X
3.6250	5.8437	2.2500	2.2812	.062	.120	42362D	42584
3.6250	5.8750	2.5000	2.2812	.062	.125	42362D	42587
3.7500	7.5000	4.6250	5.0000	.250	.125	867D	854
3.7500	7.8750	5.0000	5.0000	.250	.125	867D	854X
3.7500	7.5000	4.6250	5.0000	.250	.125	HH221440D	HH221410
3.7500	7.8750	5.0000	5.0000	.250	.125	HH221440D	HH221416
3.8750	6.1875	3.1562	3.1250	.031	.125	52387D	52618



The type TDIKE bearing was developed for use in light-duty pillow blocks. Slots are provided in the cone to engage in mating projections on a collar, which in turn is secured to a shaft with set screws. This unit is not limited to pillow blocks and finds a wide field of usefulness in those applications where cold finished shafting is used. This type of bearing is not recommended for heavy-duty service. The bearing bore is held to the nominal outside diameter of cold finished shafting.

Continued next page

**TIMKEN® BEARINGS**REGISTERED TRADE MARK
THE TIMKEN ROLLER BEARING COMPANY**two-row double cone, single cups – type TDI****ARRANGED BY BORE DIAMETERS****(Continued)**

bore A	outside diam. B	width		cone radius R	cup radius r	part number	
		over cups C	thru cone D			cone	cup
3.8750	6.1875	3.1562	3.1250	.062	.125	52388D	52618
3.8750	6.3750	3.1562	3.1250	.031	.125	52387D	52637
3.8750	6.3750	3.1562	3.1250	.062	.125	52388D	52637
3.8750	6.3750	3.4062	3.1250	.031	.125	52387D	52638
3.8750	6.3750	3.4062	3.1250	.062	.125	52388D	52638
3.8750	7.1250	4.0000	4.0300	.062	.125	779D	772
4.0000	6.1875	3.1562	3.1250	.062	.125	52400D	52618
4.0000	6.3750	3.1562	3.1250	.062	.125	52400D	52637
4.0000	6.3750	3.4062	3.1250	.062	.125	52400D	52638
4.0000	7.5000	4.6250	5.0000	.062	.125	868D	854
4.0000	7.8750	5.0000	5.0000	.062	.125	868D	854X
4.0000	8.3750	5.6254	6.0000	.406	.125	945D	932
4.1250	7.1250	4.0000	4.0300	.062	.125	782D	772
4.2500	7.5000	3.8750	4.0000	.062	.125	71426D	71750
4.2500	8.3750	5.6254	6.0000	.125	.125	946D	932
4.2500	9.2500	5.5000	6.0000	.515	.125	95426D	95925
4.2500	9.7500	5.5000	6.0000	.515	.125	95426D	95975
4.3750	8.3750	5.6250	6.0000	.125	.125	HH224343DD	HH224310
4.3750	8.4636	5.4772	6.0000	.125	.125	HH224343DD	HH224314
4.5000	7.5000	3.8750	4.0000	.062	.125	71450D	71750
4.5000	8.3750	5.6250	6.0000	.125	.125	HH224346DD	HH224310
4.5000	8.3750	5.6254	6.0000	.125	.125	938D	932
4.5000	8.4636	5.4772	6.0000	.125	.125	HH224314	HH224314
4.5000	9.2500	5.5000	6.0000	.515	.125	95451D	95925
4.5000	9.7500	5.5000	6.0000	.515	.125	95451D	95975
4.6250	9.7500	6.0000	6.3750	.312	.187	EE116048D	116097
4.6250	9.8750	6.0000	6.3750	.312	.187	EE116048D	116098
4.7500	6.8750	2.6251	2.6875	.031	.062	M224749D	M224710
4.7500	9.2500	5.5000	6.0000	.250	.125	95474D	95925
4.7500	9.7500	5.5000	6.0000	.250	.125	95474D	95975
4.7500	10.0000	6.3750	6.7500	.500	.250	EE153047D	153100
4.7500	10.1875	6.3750	6.7500	.500	.250	EE153047D	153101
4.7500	10.2500	6.3750	6.7500	.500	.250	EE153047D	153102
4.8750	10.0000	6.3750	6.7500	.437	.250	EE153048D	153100
4.8750	10.1875	6.3750	6.7500	.437	.250	EE153048D	153101
4.8750	10.2500	6.3750	6.7500	.437	.250	EE153048D	153102
4.9170	11.6250	6.5000	6.7500	.531	.250	EE455049D	455116
5.0000	7.1875	3.0000	3.0000	.062	.125	48290D	48220
5.0000	7.5000	3.6250	3.6250	.062	.125	67388D	67322
5.0000	8.0000	3.6250	3.6250	.062	.125	67388D	67320
5.0000	9.2500	5.5000	6.0000	.203	.125	95499D	95925
5.0000	9.7500	5.5000	6.0000	.203	.125	95499D	95975
5.0000	10.0000	6.3750	6.7500	.125	.250	EE153053D	153100
5.0000	10.1875	6.3750	6.7500	.125	.250	EE153053D	153101
5.0000	10.2500	6.3750	6.7500	.125	.250	EE153053D	153102
5.0000	11.3750	5.8750	6.2500	.515	.250	HH231637D	HH231610
5.0000	11.6250	5.8750	6.2500	.515	.250	HH231637D	HH231615
5.0000	11.6250	6.5000	6.7500	.531	.250	EE455050D	455116
5.1183	8.5000	4.8750	4.8750	.062	.125	74510D	74850
5.1183	8.5625	4.8750	4.8750	.062	.125	74510D	74854
5.1250	8.5000	4.0000	4.0000	.062	.125	74512D	74850
5.1250	8.5625	4.0000	4.0000	.062	.125	74512D	74856
5.1250	8.7500	2.3849	2.1250	.140	.125	73512D	73875
5.2500	7.5000	3.6250	3.6250	.062	.125	67390D	67322
5.2500	8.0000	3.6250	3.6250	.062	.125	67390D	67320
5.2500	11.6250	6.5000	6.7500	.375	.250	EE455052D	455116
5.3110	12.1250	6.3750	6.7500	.531	.265	EE450531D	451212
5.3110	12.1250	6.3750	6.7500	.531	.265	HH234030D	HH234010
5.3110	12.5000	6.3750	6.7500	.531	.265	EE450531D	451250
5.3110	12.5000	6.3750	6.7500	.531	.265	HH234030D	HH234018
5.3750	8.8750	4.7500	4.7500	.062	.125	H228649D	H228610
5.3750	11.6250	6.5000	6.7500	.531	.250	EE455053D	455116
5.5000	7.8750	3.0625	2.9688	.031	.125	48680D	48620
5.5000	8.7500	2.3849	2.1250	.140	.125	73550D	73875

bore A	outside diam. B	width		cone radius R	cup radius r	part number	
		over cups C	thru cone D			cone	cup
5.5000	11.6250	6.5000	6.7500	.125	.250	EE455048D	455116
5.5000	12.1250	6.3750	6.7500	.531	.265	EE450550D	451212
5.5000	12.1250	6.3750	6.7500	.531	.265	HH234032D	HH234010
5.5000	12.5000	6.3750	6.7500	.531	.265	EE450550D	451250
5.5000	12.5000	6.3750	6.7500	.531	.265	HH234032D	HH234018
5.6250	11.7500	4.2500	4.3750	.125	.125	EE517055D	517117
5.6875	11.7500	4.2500	4.3750	.125	.125	EE517058D	517117
5.7500	9.6250	3.4375	3.6250	.062	.125	81576D	81962
5.7500	12.1250	6.3750	6.7500	.531	.265	EE450575D	451212
5.7500	12.1250	6.3750	6.7500	.531	.265	HH234040D	HH234010
5.7500	12.5000	6.3750	6.7500	.531	.265	EE450575D	451250
5.7500	12.5000	6.3750	6.7500	.531	.265	HH234040D	HH234018
5.8750	9.3125	4.1875	4.1475	.062	.125	82587D	82931
5.8750	9.5000	4.1875	4.1475	.062	.125	82587D	82950
5.8750	10.0000	4.7500	4.7500	.062	.125	99587D	99100
6.0000	8.7500	3.3125	3.3125	.062	.062	M231649D	M231610
6.0000	9.6250	3.4375	3.6250	.062	.125	81601D	81962
6.0000	10.0000	6.2500	6.2500	.062	.125	99603D	99100
6.0000	11.7500	4.2500	4.3750	.125	.125	EE517060D	517117
6.0000	12.1250	6.3750	6.7500	.375	.265	EE450600D	451212
6.0000	12.1250	6.3750	6.7500	.375	.265	HH234048D	HH234010
6.0000	12.1250	6.3750	6.7500	.375	.265	HH234049D	HH234010
6.0000	12.5000	6.3750	6.7500	.375	.265	EE450600D	451250
6.0000	12.5000	6.3750	6.7500	.375	.265	HH234048D	HH234018
6.0000	12.5000	6.3750	6.7500	.375	.265	HH234049D	HH234018
6.0150	9.6250	3.4375	3.6250	.062	.125	81603D	81962
6.1250	9.7500	4.8125	4.8125	.062	.125	H432549D	H432510
6.2500	11.2500	5.0625	4.9375	.125	.250	EE217063D	217112
6.2500	11.4375	4.9375	4.9375	.125	.250	EE217063D	217114
6.2500	12.0000	4.3086	4.5000	.125	.125	EE280625D	281200
6.5000	8.8750	3.1250	3.0000	.031	.125	46790D	46720
6.8750	11.3750	4.8750	4.8750	.062	.125	HM237542D	HM237510
7.0000	9.7500	3.5625	3.5625	.062	.125	67790D	67720
7.0000	11.0000	4.4374	4.4375	.062	.125	82680D	82620
7.0000	11.2500	4.1874	4.1875	.062	.125	EE91700D	91112
7.0000	11.3750	4.8750	4.8750	.062	.125	94706D	94113
7.0000	11.3750	4.8750	4.8750	.062	.125	HM237546D	HM237510
7.0000	11.3750	6.2500	6.2500	.062	.125	94704D	94113
7.0000	11.3750	6.2500	6.2500	.062	.125	HM237546DD	HM237510
7.0000	11.7500	4.8750	4.8750	.062	.125	94706D	94118
7.0000	11.7500	6.2500	6.2500	.062	.125	94704D	94118
7.0000	12.0000	4.3086	4.5000	.125	.125	EE280700D	281200
7.0000	13.0000	4.3750	4.2500	.062	.125	EE210700D	211300
7.3750	10.6250	4.0000	4.0000	.062	.125	M238849D	M238810
7.3750	12.5970	6.6250	6.3750	.125	.187	EE222074D	222126
7.3750	12.5970	6.6250	6.3750	.125	.187	H239649D	H239610
7.3750	12.6250	6.6250	6.3750	.125	.187	EE222074D	222128
7.3750	12.6250	6.6250	6.3750	.125	.187	H239649D	H239612
7.5000	12.5000	5.2500	5.2500	.250	.125	93751D	93125
7.5000	12.5000	5.6250	5.2500	.250	.125	93751D	93126
7.5000	13.0000	4.3750	4.2500	.125	.125	EE210750D	211300
7.5000	14.3720	6.2500	6.0000	.125	.125	EE420750D	421437
7.5000	14.5000	6.2500	6.0000	.125	.125	EE420750D	421450
7.8730	12.5000	5.2500	5.2500	.250	.125	93788D	93125
7.8730	12.5000	5.6250	5.2500	.250	.125	93788D	93126
7.8750	12.5000	3.7500	3.7500	.125	.125	EE132078D	132125
7.8750	12.5625	3.7500	3.7500	.125	.125	EE132078D	132125
8.0000	12.5000	4.1562	4.1875	.062	.125	93580D	93520
8.0000	12.5000	5.2500	5.2500	.250	.125	93801D	93125
8.0000	12.5000	5.6250	5.2500	.250	.125	93801D	93126
8.0000	12.5625	3.7500	3.7500	.125	.125	EE132081D	132127
8.0000	14.3720	6.2500	6.0000	.125	.125	EE420800D	421437
8.0000	14.5000	6.2500	6.0000	.125	.125	EE420800D	421450

Continued next page

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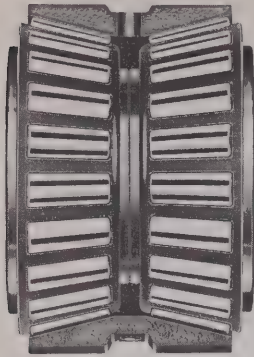
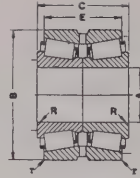
TIMKEN BEARINGS—TWO-ROW DOUBLE CONE, SINGLE CUPS—TYPE TDI (Cont'd)

bore A	outside diam. B	width		cone radius R	cup radius r	part number	
		over cups C	through cone D			cone	cup
8.1250	11.1250	3.4375	3.4375	.031	.125	67985D	67920
8.1250	13.2500	7.1250	7.2500	.062	.125	H242649D	H242610
8.5000	13.0000	8.0000	7.6250	.125	.125	9975D	9920
8.5000	14.0000	4.7500	4.7500	.062	.062	EE130850D	131400
8.5080	13.0000	5.1250	5.0000	.062	.125	9974D	9920
8.5080	13.0000	6.0000	5.6250	.125	.125	9977D	9920
8.6250	14.1250	7.7500	7.8750	.062	.250	H244849D	H244810
8.6875	12.3750	4.5625	4.5625	.062	.125	M244249D	M244210
8.8750	14.0000	4.7500	4.7500	.218	.062	EE130887D	131400
8.8750	14.0000	6.5000	6.5000	.312	.062	EE130888D	131400
9.0000	14.0000	4.7500	4.7500	.062	.062	EE130900D	131400
9.0000	14.0000	4.7500	4.7500	.218	.062	EE130901D	131400
9.0000	14.0000	6.5000	6.5000	.312	.062	EE130903D	131400
9.0000	15.7500	5.5000	5.5000	.125	.125	EE529091D	529157
9.0000	15.7500	6.2500	6.3750	.125	.125	EE430901D	431575
9.0000	16.7500	7.0000	6.5000	.140	.250	EE700090D	700167
9.2500	12.8750	3.6875	3.6875	.062	.125	EE8576D	8520
9.2500	15.1250	8.2500	8.2500	.062	.250	H247549D	H247510
9.4970	13.7460	4.2500	4.2500	.062	.125	EE127094D	127135
9.4970	13.8125	4.2500	4.2500	.062	.125	EE127094D	127137
9.4970	13.9960	4.2500	4.2500	.062	.125	EE127094D	127138
9.4970	14.0000	4.2500	4.2500	.062	.125	EE127094D	127140
9.5000	13.5000	3.6250	3.6250	.062	.125	8880D	8820
9.5000	14.0000	3.6500	3.6560	.062	.125	EE170951D	171400
9.5000	14.3720	3.6500	3.6560	.062	.125	EE170951D	171436
9.5000	14.5000	3.6500	3.6560	.062	.125	EE170951D	171450
9.5000	16.5000	7.0000	6.8750	.125	.250	EE821066D	821165
9.5070	13.7460	4.2500	4.2500	.062	.125	EE127097D	127135
9.5070	13.8125	4.2500	4.2500	.062	.125	EE127097D	127137
9.5070	13.9960	4.2500	4.2500	.062	.125	EE127097D	127138
9.5070	14.0000	4.2500	4.2500	.062	.125	EE127097D	127140
9.6250	12.8750	3.6250	3.6250	.062	.125	LM247748D	LM247710
9.6250	15.0000	5.7500	5.7500	.125	.187	EE126096D	126150
9.7500	15.7500	4.6874	4.5000	.062	.250	EE220975D	221575
9.7500	16.0000	8.5000	8.6250	.125	.250	HM249949D	HM249910
9.8750	16.6250	6.0000	5.5000	.140	.125	EE550987D	551662
9.8750	16.6250	6.0000	5.5000	.140	.125	HM252340D	HM252310
9.8750	16.9970	5.7188	5.5000	.140	.140	EE550987D	551700
9.8750	16.9970	5.7188	5.5000	.140	.140	HM252340D	HM252315
10.0000	14.0000	3.6500	3.6560	.062	.125	EE171000D	171400
10.0000	14.1250	5.1250	5.1250	.062	.125	M249748D	M249710
10.0000	14.3720	3.6500	3.6560	.062	.125	EE171000D	171436
10.0000	14.5000	3.6500	3.6560	.062	.125	EE171000D	171450
10.0000	15.7500	4.2500	4.1250	.062	.062	EE251000D	251575
10.0000	16.6250	6.0000	5.5000	.140	.125	EE551000D	551662
10.0000	16.6250	6.0000	5.5000	.140	.125	HM252343D	HM252310
10.0000	16.6250	6.0000	5.5000	.140	.125	HM252344D	HM252310
10.0000	16.6250	6.1250	6.0000	.265	.125	EE551004D	551662
10.0000	16.6250	6.1250	6.0000	.265	.125	HM252342D	HM252310
10.0000	16.9970	5.7188	5.5000	.140	.140	EE551000D	551700
10.0000	16.9970	5.7188	5.5000	.140	.140	HM252343D	HM252315
10.0000	16.9970	5.7188	5.5000	.140	.140	HM252344D	HM252315
10.0000	16.9970	5.8436	6.0000	.265	.140	EE551004D	551700
10.0000	16.9970	5.8438	6.0000	.265	.140	HM252342D	HM252315
10.0000	17.2500	6.5000	6.5000	.125	.250	EE738101D	738172
10.0000	17.5000	5.2500	5.2500	.125	.250	EE822101D	822175
10.2500	14.3750	4.2500	4.2500	.125	.250	EE134103D	134143
10.2500	14.5000	4.2500	4.2500	.125	.250	EE134103D	134145
10.2500	15.7500	4.6874	4.5000	.250	.250	EE221025D	221575
10.2500	16.0000	6.1250	6.0000	.250	.125	EE324103D	324160
10.2500	16.6250	6.0000	5.5000	.140	.125	EE551024D	551662
10.2500	16.6250	6.0000	5.5000	.140	.125	HM252347D	HM252310
10.2500	16.6250	6.1250	6.0000	.250	.125	EE551027D	551662
10.2500	16.6250	6.1250	6.0000	.250	.125	HM252348D	HM252310
10.2500	16.6250	6.1250	6.0000	.250	.125	HM252349D	HM252310
10.2500	16.6250	7.2500	7.1250	.375	.125	EE551028D	551662
10.2500	16.6250	7.2500	7.1250	.375	.125	HM252348DD	HM252310
10.2500	16.9970	5.7188	5.5000	.140	.140	EE551024D	551700
10.2500	16.9970	5.7188	5.5000	.140	.140	HM252347D	HM252315
10.2500	16.9970	5.8436	6.0000	.250	.140	EE551027D	551700
10.2500	16.9970	5.8438	6.0000	.250	.140	HM252348D	HM252315
10.2500	16.9970	5.8438	6.0000	.250	.140	HM252349D	HM252315
10.2500	16.9970	6.9686	7.1250	.375	.140	EE551028D	551700
10.2500	16.9970	6.9688	7.1250	.375	.140	HM252348DD	HM252315
10.2500	17.5000	7.7500	7.7500	.250	.125	EE823103D	823175
10.5000	14.0000	4.2500	4.3125	.062	.125	76589D	76520
10.5000	15.5000	5.1250	5.1250	.125	.250	EE275106D	275155
10.5000	15.8750	4.8126	5.1250	.125	.250	EE275106D	275158
10.5000	16.0000	4.8126	5.1250	.125	.250	EE275106D	275160
10.6250	15.5000	5.3750	5.3750	.125	.125	M252349D	M252310

bore A	outside diam. B	width		cone radius R	cup radius r	part number	
		over cups C	thru cone D			cone	cup
10.8750	15.5000	5.1250	5.1250	.062	.250	EE275109D	275155
10.8750	15.8750	4.8124	5.1250	.062	.250	EE275109D	275158
10.8750	16.0000	4.8124	5.1250	.062	.250	EE275109D	275160
11.0000	15.5000	5.0000	5.0000	.062	.250	EE135111D	135155
11.0000	18.0000	9.6250	9.6250	.062	.250	HH255149D	HH255110
11.0000	18.5000	6.6875	6.5625	.250	.125	EE722111D	722185
11.0000	18.5000	7.5000	7.2500	.375	.125	EE722112D	722185
11.0000	19.5000	5.4312	5.3125	.062	.125	EE941106D	941950
11.0070	14.9960	4.6250	4.6250	.062	.125	LM654644D	LM654610
11.0236	16.0000	8.1250	8.1250	.125	.125	EE128113D	128166
11.0236	16.0000	8.1250	8.1250	.125	.125	EE128114D	128160
11.0236	16.1410	8.1250	8.1250	.125	.125	EE128113D	128161
11.0236	16.1410	8.1250	8.1250	.125	.125	EE128114D	128161
11.1250	15.5000	5.0000	5.0000	.062	.250	EE135113D	135155
11.2500	14.9960	4.6250	4.6250	.062	.125	LM654648D	LM654610
11.2500	18.5000	5.4696	5.6250	.062	.125	EE921126D	921850
11.2500	18.7500	5.4696	5.6250	.062	.125	EE921126D	921875
11.3750	16.0000	5.6875	5.6875	.125	.125	M255449D	M255410
11.5000	16.6250	5.1250	5.1250	Spec.	.125	EE330116D	330166
11.5000	18.5000	5.4696	5.6250	.062	.125	EE921150D	921850
11.5000	18.7500	5.4696	5.6250	.062	.125	EE921150D	921875
11.5000	22.0000	11.2500	11.2500	.125	.250	EE790117D	790221
11.7500	17.2460	5.1875	5.1875	.125	.125	EE329118D	329172
11.7500	17.2460	5.2500	5.3125	.125	.187	EE129118D	129172
11.7500	17.5000	4.3750	4.2500	.312	.062	EE291176D	291750
11.7500	17.5000	4.3750	4.2500	.312	.125	EE291176D	291749
11.8125	16.6250	5.9375	5.9375	.125	.125	HM256849D	HM256810
11.9375	19.5000	10.3750	10.3750	.125	.250	HM258249D	HM258210
11.9940	17.2460	5.1875	5.1875	.125	.125	EE329119D	329172
11.9940	17.2460	5.1875	5.1875	.125	.125	EE329117D	329172
11.9940	17.2460	5.2500	5.3125	.125	.187	EE129121D	129172
11.9940	17.2460	5.4375	5.0625	.125	.187	M754741D	M754710
12.0000	16.5000	5.1250	5.1250	.062	.250	M257149D	M257110
12.0000	17.0000	4.7500	3.8750	.125	.125	EE111201D	111700
12.0000	17.2500	4.7500	3.8750	.125	.125	EE111201D	111725
12.0000	17.5000	4.3750	4.2500	.312	.062	EE291200D	291750
12.0000	17.5000	4.3750	4.2500	.312	.125	EE291200D	291749
12.0000	19.5000	5.4312	5.3125	.062	.125	EE941206D	941950
12.0000	19.5000	6.7500	6.5000	.125	.250	EE724121D	724195
12.0000	22.0000	11.2500	11.2500	.125	.250	EE790119D	790221
12.0040	16.2460	5.0625	5.0625	.125	.125	M257249D	M257210
12.0040	17.2460	7.7500	8.3750	.125	.187	EE129124D	129172
12.0080	17.2460	5.2500	5.3125	.125	.187	EE129123D	129172
12.0100	19.6830	7.8740	7.8740	.125	.250	HM858548D	HM858511
12.5000	16.6250	5.0625	5.0625	.062	.125	LM258649D	LM258610
12.5000	17.6250	6.2500	6.2500	.125	.125	HM259049D	HM259010
12.5000	18.0000	4.5000	4.3750	.125	.265	EE201251D	201800
12.8750	19.0000	6.0000	5.8125	.062	.125	EE526129D	526190
13.0000	18.5000	4.1250	3.7500	.062	.250	EE161301D	161850
13.0000	19.0000	4.1250	3.7500	.062	.250	EE161301D	161900
13.0000	19.0000	6.0000	5.8125	.062	.125	EE526131D	526190
13.0000	19.2500	4.1250	3.7500	.062	.250	EE161301D	161925
13.0040	17.2450	4.7500	4.5000	.062	.125	EE138131D	138172
13.1250	18.5000	6.5625	6.5625	.125	.125	HM261049D	HM261010
13.5000	21.0000	5.5000	5.7500	.125	.125	EE971355D	972100
13.5000	22.5000	6.4375	6.4375	.125	.250	EE536136D	536225
13.5060	17.9960	4.7500	4.7500	.062	.125	EE133136D	133180
13.6250	18.5000	4.1250	3.7500	.062	.250	EE161362D	161850
13.6250	19.0000	4.1250	3.7500	.062	.250	EE161362D	161900
13.6250	19.2500	4.1250	3.7500	.062	.250	EE161362D	161925
13.6250	19.2500	6.8750	6.8750	.125	.125	HM262749D	HM262710
13.6875	18.5000	5.4375	5.4375	.125	.125	M262449D	M262410
13.9375	18.5000	4.1250	3.7500	.062	.250	EE161393D	161850
13.9375	19.0000	4.1250	3.7500	.062	.250	EE161393D	161900
13.9375	19.2500	4.1250	3.7500	.062	.250	EE161393D	161925
14.0000	17.5000	4.4375	4.5000	.062	.125	L163149D	L163110
14.0000	18.0000	4.7500	4.7500	.062	.125	LM263149D	LM263110
14.0000	19.0000	5.1876	5.0000	.062	.125	EE204140D	204190
14.0000	19.0000	5.2500	5.0625	.062	.125	LM763449D	LM763410
14.0000	19.7500	5.0000	4.3750	.125	.125	EE231401D	231975
14.0000	20.2500	5.0000	4.3750	.125	.125	EE231401D	232025
14.5000	20.6250	7.3125	7.3125	.125	.250	HM265049D	HM265010
14.5000	23.5000	6.5000	6.2500	.250	.250	EE181454D	182350
14.5000	24.0000	10.0000	11.0000	.125	.250	EE321146D	321240
14.5000	24.5000	10.0000	11.0000	.125	.250	EE321146D	321245
14.7470	21.5000	7.6250	7.6250	.125	.250	HM266445D	HM266410
14.7500	19.7500	5.0000	4.6250	.062	.125	EE231475D	231975
14.7500	20.2500	5.0000	4.6250	.062	.125	EE231475D	232025
15.1250	21.5000	7.6250	7.6250	.125	.250	HM266449D	HM266410
15.5000	21.5000	5.5625	4.7500	.125	.250	EE234157D	234210

NOTE: LARGER SIZES AVAILABLE

NEED HELP ON BEARINGS—CALL US

**TIMKEN® BEARINGS**REGISTERED TRADE MARK
THE TIMKEN ROLLER BEARING COMPANY**two-row double cup, single cones — type TNA****ARRANGED BY BORE DIAMETERS**

bore A	outside diam. B	width		cone radius R	cup radius r	part number	
		through cones C	over cup E			cone	cup
.7500	1.8504	1.2500	.9926	.046	.031	NA05075	05185D
.9835	2.4410	1.5625	1.4275	.062	.031	NA17098	17245D
1.1805	2.8338	1.6835	1.4375	.062	.031	NA26118	26284D
1.2500	2.3125	1.2812	.9688	.062	.015	NA08125	08231D
1.3750	2.7170	1.8126	1.5000	.140	.031	NA14138	14276D
1.3770	3.1510	1.8126	1.3750	.062	.031	NA28138	28318D
1.5000	2.7170	1.8124	1.5000	.078	.031	NA13687	13621D
1.5748	3.5480	2.0000	1.7500	.062	.031	NA357	353D
1.7188	3.2500	1.7500	1.3750	.090	.031	NA22171	22325D
1.7500	3.1250	1.6249	1.3125	.109	.031	NA18685	18620D
1.7500	3.7500	2.4376	2.0000	.140	.031	NA438	432D
1.9685	3.5433	1.9689	1.6563	.140	.031	NA366	363D
2.0000	3.6718	2.5625	2.0625	.140	.031	NA3780	3729D
2.0000	4.2500	2.5626	2.1250	.140	.031	NA455	452D
2.1250	4.3750	3.1250	2.5000	.140	.062	NA539	533D
2.1653	3.9370	2.0625	1.6875	.140	.031	NA385	384D
2.3622	4.3307	2.0625	1.8125	.140	.031	NA397	394D
2.3622	4.7244	2.5626	2.1250	.140	.031	NA476	472D
2.3750	4.8750	3.1250	2.5000	.140	.062	NA558	552D
2.6250	5.0000	3.1875	2.5625	.140	.062	NA569	563D
2.7500	4.7244	2.5626	2.1250	.140	.031	NA482	472D
2.7500	5.3750	3.7500	3.0000	.140	.062	NA643	632D
2.7559	4.7244	2.5626	2.1250	.140	.031	NA484	472D
2.8750	5.0000	3.1875	2.5625	.265	.062	NA567	563D
3.0000	5.3750	2.7500	2.1250	.140	.031	NA495A	493D
3.0000	6.0000	3.7500	3.0000	.140	.062	NA659	654D
3.2500	5.5115	3.2500	2.6250	.140	.031	NA580	572D
3.2500	6.1250	4.0000	3.3750	.140	.062	NA749	742D
3.2500	6.7500	4.9375	3.3975	.140	.031	NA842	834D
3.5000	6.0000	3.2500	2.5000	.140	.031	NA593	592D
3.5000	6.3750	4.1250	3.3750	.140	.062	NA759	752D
3.7500	6.3750	3.2499	2.4375	.140	.031	NA52375	52637D
3.7500	7.0866	4.1250	3.3750	.140	.031	NA776	773D

bore A	outside diam. B	width		cone radius R	cup radius r	part number	
		through cones C	over cup E			cone	cup
3.7500	7.1250	4.1250	3.3750	.140	.062	NA776	774D
4.0000	6.6250	3.6250	2.7500	.140	.031	NA691	672D
4.0000	7.0866	4.1250	3.3750	.140	.031	NA780	773D
4.0000	7.1250	4.1250	3.3750	.140	.062	NA780	774D
4.0000	7.5000	5.0000	4.0000	.140	.062	NA861	854D
4.0000	7.5000	5.0000	4.1250	.140	.062	HH221449NA	HH221410D
4.1250	7.0866	4.1250	3.3750	.140	.031	NA782	773D
4.1250	7.1250	4.1250	3.3750	.140	.062	NA782	774D
4.5000	7.5000	4.1875	3.1875	.140	.062	NA71450	71751D
4.5000	8.3750	5.6250	4.6250	.140	.062	NA938	932D
4.5000	8.3750	5.6250	4.6250	.140	.062	HH224346NA	HH224310D
5.0000	7.1875	3.3750	2.8750	.140	.031	NA48291	48220D
5.0000	8.1250	4.2500	3.2500	.140	.031	NA798	792D
5.0000	9.2500	5.6250	4.5000	.140	.062	NA95500	95927D
5.2500	6.9688	2.3750	1.8750	.062	.031	L327248NA	L327210D
5.2500	7.5000	3.3750	2.8750	.140	.031	NA48385	48320D
5.2500	8.5000	4.1875	3.1875	.140	.062	NA74525	74851D
5.3750	7.5000	3.3750	2.8750	.140	.031	NA48390	48320D
5.5000	9.6250	4.2500	3.1250	.140	.062	NA81550	81963D
5.6250	7.8750	3.6876	2.8750	.140	.031	NA48686	48620D
5.7500	9.3125	5.1875	4.1875	.140	.062	NA82576	82932D
5.7500	9.3125	5.1875	4.1875	.140	.062	HM231140NA	HM231111D
5.7500	9.5000	5.1875	4.1875	.140	.062	NA82576	82951D
5.7500	9.5000	5.1875	4.1875	.140	.062	HM231140NA	HM231116D
5.8750	9.3125	5.1875	4.1875	.140	.062	NA82587	82932D
5.8750	9.3125	5.1875	4.1875	.140	.062	HM231149NA	HM231111D
5.8750	9.5000	5.1875	4.1875	.140	.062	NA82587	82951D
5.8750	9.5000	5.1875	4.1875	.140	.062	HM231149NA	HM231116D
6.0000	9.6250	4.2500	3.1250	.140	.062	NA81600	81963D
6.0000	10.0000	5.6250	4.3750	.140	.062	NA99600	99102D
6.5000	8.8750	3.7500	2.7500	.140	.031	NA46790	46720D
6.5000	11.3750	5.6250	4.3750	.140	.062	NA94650	94114D
6.5000	11.3750	5.6250	4.3750	.140	.062	HM237536NA	HM237510D

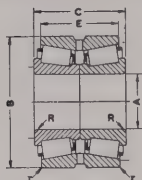
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NEED HELP ON BEARINGS—CALL US

TIMKEN® BEARINGS

REGISTERED TRADE MARK
THE TIMKEN ROLLER BEARING COMPANY

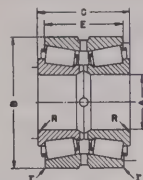
two-row double cup, single cones type TNA ARRANGED BY BORE DIAMETERS



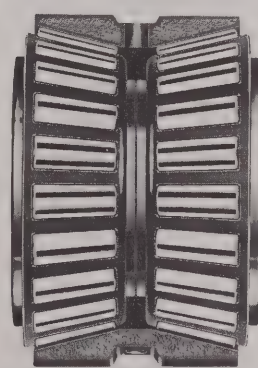
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bore A	outside diam. B	width		cone radius R	cup radius r	part number	
		through cones C	over cup E			cone	cup
6.5000	11.7500	5.6250	4.3750	.140	.062	NA94650	94118D
6.5156	8.8750	3.7500	2.7500	.140	.031	NA46791	46720D
6.8750	9.7500	4.0625	3.3125	.140	.031	NA67787	67720D
7.0000	9.7500	4.0625	3.3125	.140	.031	NA67790	67720D
7.0000	11.1250	4.2500	3.1250	.140	.062	NA87700	87112D
7.0000	11.3750	5.6250	4.3750	.218	.062	NA94700	94114D
7.0000	11.3750	5.6250	4.3750	.218	.062	HM237545NA	HM237510D
7.0000	11.7500	5.6250	4.3750	.218	.062	NA94700	94118D
7.3750	12.6250	7.3125	5.4375	.218	.062	NA222075	222127D
7.3750	12.6250	7.3125	5.4375	.218	.062	H239649NA	H239612D
7.5000	10.2500	2.6250	2.0000	.140	.031	NA537075	537103D
8.0000	12.5000	4.7500	3.5000	.250	.062	NA132083	132126D
8.0000	12.5000	5.7500	4.3750	.218	.062	NA93800	93127D
9.0000	14.0000	5.7500	4.3750	.250	.062	NA130902	131401D
9.5000	14.5000	4.7500	3.3750	.250	.062	NA170950	171451D
9.6250	13.7460	5.2500	4.0000	.250	.062	NA127096	127136D
10.0000	16.6250	6.8125	5.0625	.250	.062	HM252343NA	HM252311D
10.0000	16.6250	6.8125	5.0625	.250	.062	HM252344NA	HM252311D
10.0000	16.9970	6.8125	5.0625	.250	.062	NA551002	551701D
10.0000	16.9970	6.8125	5.0625	.250	.062	HM252343NA	HM252315D
10.0000	16.9970	6.8125	5.0625	.250	.062	HM252344NA	HM252315D
10.2500	15.7500	5.7500	4.2500	.250	.062	NA221026	221576D
10.2500	16.6250	6.8125	5.0625	.250	.062	HM252348NA	HM252311D
10.2500	16.6250	6.8125	5.0625	.250	.062	HM252349NA	HM252311D
10.2500	16.9970	6.8125	5.0625	.250	.062	NA551026	551701D
10.2500	16.9970	6.8125	5.0625	.250	.062	HM252348NA	HM252315D
10.2500	16.9970	6.8125	5.0625	.250	.062	HM252349NA	HM252315D
11.0312	16.0000	4.7500	3.3750	.250	.062	NA101103	101601D
11.8420	17.2460	6.3750	4.8750	.250	.062	NA329116	329173D
11.8420	17.2460	6.3750	4.8750	.250	.062	NA329115	329173D
12.0000	17.2460	6.3750	4.8750	.250	.062	NA329120	329173D
12.0000	17.2460	6.3750	4.8750	.250	.062	NA329121	329173D
12.0000	17.5000	5.5000	3.8750	.250	.062	NA291201	291751D
14.0000	19.7500	5.7500	4.2500	.250	.062	NA231400	231976D
14.0000	20.2500	5.7500	4.2500	.250	.062	NA231400	232026D
16.0000	22.6250	6.1875	4.1875	.250	.062	NA285160	285228D

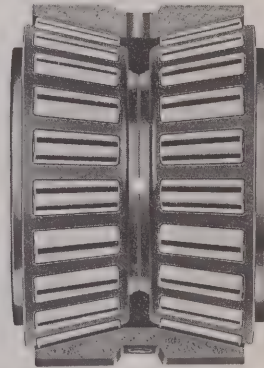
two-row double cup, slotted cones type TNASW ARRANGED BY BORE DIAMETERS



bore A	outside diam. B	width		cone radius R	cup radius r	part number	
		through cones C	over cup E			cone	cup
1.1805	2.8338	1.6835	1.4375	.062	.031	NA261185W	26284D
1.7500	3.7500	2.4376	2.0000	.140	.031	NA4385W	432D
2.0000	3.6718	2.5625	2.0625	.140	.031	NA37805W	3729D
2.0000	4.2500	2.5626	2.1250	.140	.031	NA4555W	452D
2.0000	4.4375	2.5625	1.8125	.093	.062	NA552005W	55444D
2.3750	4.8750	3.1250	2.5000	.140	.062	NA5585W	552D
2.7500	5.3750	3.7500	3.0000	.140	.062	NA6435W	632D
2.7559	4.7244	2.5626	2.1250	.140	.031	NA4845W	472D
3.0000	5.3750	2.7500	2.1250	.140	.031	NA4955W	493D
3.0000	6.0000	3.7500	3.0000	.140	.062	NA6595W	654D
3.5000	6.0000	3.2500	2.5000	.140	.031	NA5935W	592D
3.5000	6.3750	4.1250	3.3750	.140	.062	NA7595W	752D
3.7500	7.0866	4.1250	3.3750	.140	.031	NA7765W	773D
3.7500	7.1250	4.1250	3.3750	.140	.062	NA7765W	774D
4.0000	6.6250	3.6250	2.7500	.140	.031	NA6915W	672D
5.0000	8.1250	4.2500	3.2500	.140	.031	NA7985W	792D
7.0000	9.7500	4.0625	3.3125	.140	.031	NA677915W	67720D
7.5000	10.2500	2.6250	2.0000	.140	.031	NA537075W	537103D
8.0000	12.5000	5.7500	4.3750	.218	.062	NA938005W	93127D
10.2500	15.7500	5.7500	4.2500	.250	.062	NA2210275W	221576D



TNA



TNASW

TYPES TNA and TNASW

Types TNA and TNASW Timken Bearings have a double cup and two single cones. The ground front faces of the cones are butted together so that when the unit is fixed in place the proper running clearance is provided. All cones and cups of a given part number are ground to masters so that parts may be interchanged when installed.

The TNA and TNASW bearing design gives a non-adjustable arrangement, providing a specific amount of end-play, therefore they are not always satisfactory for applications where bearing adjustment and control of end play is required.

The type TNASW bearings have inside chamfers and slots on the contacting cone faces. These permit the application of lubricant to the space between the two rows of rollers without the need for a fitting on the rotating member.

TORRINGTON NEEDLE BEARINGS**SUGGESTED METHOD FOR MOUNTING****INSTALLATION OF NEEDLE BEARINGS**

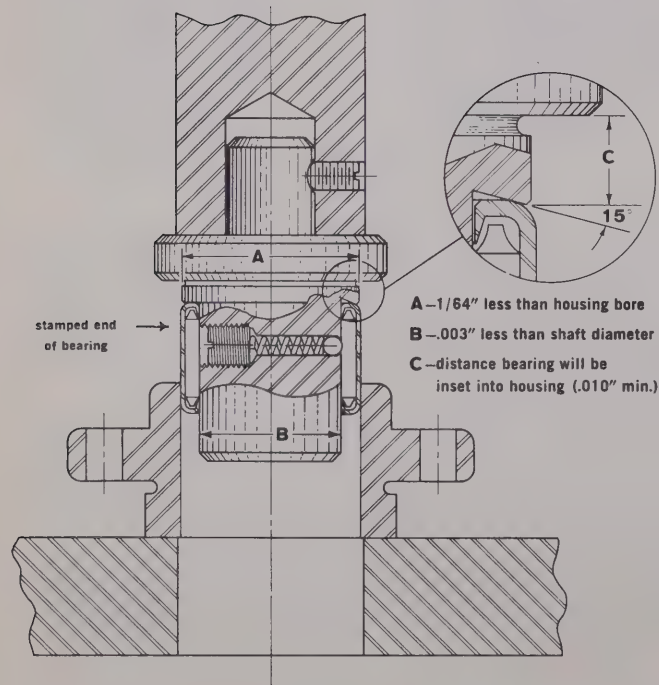
Since the Torrington needle bearing will be a press fit in the housing bore, it is essential to use a proper installation tool similar to the one illustrated below. A standard arbor press, used in conjunction with the proper tool makes an adequate assembly machine. The press fit eliminates the need for snap rings or shoulders to hold the bearings in place.

Always assemble bearing with stamped end against the angled shoulder of the pressing tool.

Never pound a bearing into the housing, even in conjunction with the proper assembly tool.

Never press bearing tight against a shoulder in the housing. If a shouldered housing must be used, housing bore depth must be sufficient to insure that the fillet in the housing is beyond the bearing. It is advisable to have a positive stop on the press tool to prevent the bearing being pressed beyond its intended location.

Assembly tool should have a leader or pilot to start the bearing true in the housing.

**NEEDLE BEARING FITS**

A clear understanding of the various tolerances existing in a needle bearing installation will aid the designer in determining the resulting fits.

The tables below are representative of the individual manufacturing and built-in tolerances of certain sizes showing the resulting diametrical clearances.

CONSULT US FOR SHAFT DIAMETER AND HOUSING BORE DIMENSIONAL LIMITS FOR SPECIFIC BEARING SIZES.

Torrington type DC bearings are manufactured to "precision" and "extra-precision" specifications. The diametrical clearance for the "precision" type, as installed, will vary between .0005" and .0029". The diametrical clearance for the "extra-precision" type, as installed, will vary between .0003" and .0012".

STANDARD PRECISION SERIES

1. Manufacturing tolerance.....	.0009"
2. Minimum diametrical clearance (running clearance of rolls).....	.0005"
3. User's installation tolerances	
a. Housing bore.....	.0010"
b. Shaft dia.....	.0005"
Maximum clearance.....	.0029"

EXTRA-PRECISION SERIES

1. Manufacturing tolerance.....	.0003"
2. Minimum allowable diametrical clearance, rotating motion.....	.0003"
3. User's installation Tolerances	
A. Housing Bore.....	.0003"
B. Shaft Diameter.....	.0003"
Total.....	.0012"

GAUGING NEEDLE BEARINGS

The outside shell of a Needle Bearing is accurately drawn from strip steel. In the hardening operation, the shell goes out of round. Upon pressing into a true round housing bore, the shell resumes its original shape. For this reason, it is impossible to measure a Needle Bearing in the open. The correct method for inspecting the size is to press the bearing into a ring gauge of minimum housing bore and measure the bore with a plug gauge. For proper gauge dimensions, consult us.

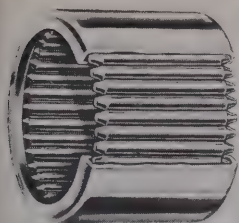
TORRINGTON NEEDLE BEARINGS

Standard Precision and Extra Precision Types—Open and Closed Ends

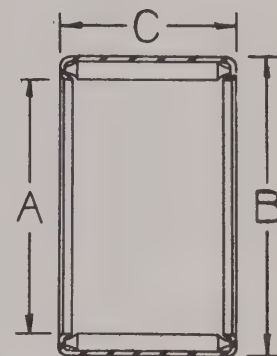
Standard precision bearings are suitable for most needle bearing applications.

The extra precision series have precision ground outside diameters. Unless the user can hold the shaft and housing bore tolerances within close limits, little will be gained by using the Extra-Precision Series bearings.

Bearings with oil hole in the middle of outer shell can be supplied at no additional cost. If required, specify on order by adding suffix "OH" to the bearing part number.

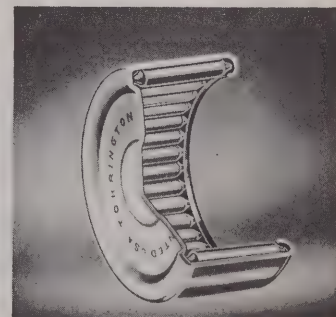


Open End Type

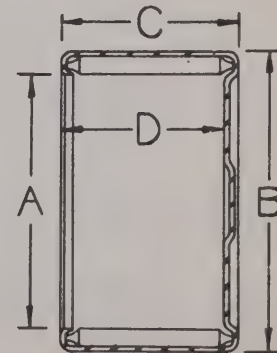


Open End Type

To secure maximum capacity the shaft must be hardened to Rockwell "C" 58, or equivalent.



Closed End Type



†Closed End Type

†Available with grease fitting on special order.

PRECISION		EXTRA PRECISION		A	B	C	D
Open End B	Closed End M	Open End GB	Closed End GM	Nom'l Shaft Dia.	Nom'l O.D.	Length +.000 —.010	Min. Inside Depth M Series
B-24	M-241	GB-24	GM-241	1/8	1/4	1/4	.19
B-2 1/4	M-2 1/4 41	GB-2 1/4	GM-2 1/4 41	5/32	9/32	1/4	.19
B-2 1/2	M-2 1/2 51	GB-2 1/2	GM-2 1/2 51	5/32	9/32	5/16	.25
B-34	M-341	GB-34	GM-341	3/16	11/32	1/4	.17
B-36	M-361	GB-36	GM-361	3/16	11/32	3/8	.30
B-44	M-441	GB-44	GM-441	1/4	7/16	1/4	.17
B-45	M-451	GB-45	GM-451	1/4	7/16	5/16	.23
B-47	M-471	GB-47	GM-471	1/4	7/16	7/16	.35
B-55	M-551	GB-55	GM-551	5/16	1/2	5/16	.23
B-56	.....	GB-56	.....	5/16	1/2	3/8	...
B-57	M-571	GB-57	GM-571	5/16	1/2	7/16	.35
B-59	M-591	GB-59	GM-591	5/16	1/2	9/16	.48
B-65	M-651	GB-65	GM-651	3/8	9/16	5/16	.23
B-66	M-661	GB-66	GM-661	3/8	9/16	3/8	.29
B-68	M-681	GB-68	GM-681	3/8	9/16	1/2	.41
B-610	M-6101	GB-610	GM-6101	3/8	9/16	5/8	.54
B-78	M-781	GB-78	GM-781	7/16	5/8	1/2	.41
B-85	M-851	GB-85	GM-851	1/2	11/16	5/16	.23
B-86	M-861	GB-86	GM-861	1/2	11/16	3/8	.29
B-87	M-871	GB-87	GM-871	1/2	11/16	7/16	.35
B-88	M-881	GB-88	GM-881	1/2	11/16	1/2	.41
B-810	M-8101	GB-810	GM-8101	1/2	11/16	5/2	.54
B-812	M-8121	GB-812	GM-8121	1/2	11/16	3/4	.66
B-95	M-951	GB-95	GM-951	9/16	3/4	5/16	.23
B-96	M-961	GB-96	GM-961	9/16	3/4	3/8	.29
B-97	M-971	GB-97	GM-971	9/16	3/4	7/16	.35
B-98	M-981	GB-98	GM-981	9/16	3/4	1/2	.41
B-910	M-9101	GB-910	GM-9101	9/16	3/4	5/8	.54
B-912	M-9121	GB-912	GM-9121	9/16	3/4	3/4	.66
B-105	M-1051	GB-105	GM-1051	9/16	1/2	7/16	.23
B-107	M-1071	GB-107	GM-1071	5/8	13/16	7/16	.35
B-108	M-1081	GB-108	GM-1081	5/8	13/16	1/2	.41
B-1012	M-10121	GB-1012	GM-10121	5/8	13/16	3/4	.66
B-116	M-1161	GB-116	GM-1161	11/16	7/8	3/8	.29
B-118	M-1181	GB-118	GM-1181	11/16	7/8	1/2	.41
B-1110	.....	GB-1110	.....	11/16	7/8	5/8	...
B-1112	M-11121	GB-1112	GM-11121	11/16	7/8	3/4	.66
B-126	M-1261	GB-126	GM-1261	3/4	1	5/8	.27
B-128	M-1281	GB-128	GM-1281	3/4	1	1/2	.40
B-1210	M-12101	GB-1210	GM-12101	3/4	1	3/2	.52
B-1212	M-12121	GB-1212	GM-12121	3/4	1	3/4	.65
B-136	.....	GB-136	.....	13/16	1 1/16	3/8	...
B-138	M-1381	GB-138	GM-1381	13/16	1 1/16	1/2	.40
B-1314	M-13141	GB-1314	GM-13141	13/16	1 1/16	7/8	.77
B-1316	M-13161	GB-1316	GM-13161	13/16	1 1/16	1	.90
B-146	M-1461	GB-146	GM-1461	7/8	1 1/8	3/8	.27
B-148	M-1481	GB-148	GM-1481	7/8	1 1/8	1/2	.40
B-1412	M-14121	GB-1412	GM-14121	7/8	1 1/8	3/4	.65
B-1416	M-14161	GB-1416	GM-14161	7/8	1 1/8	1	.90
B-1516	M-15161	GB-1516	GM-15161	15/16	1 5/16	1	.90
B-166	.....	GB-166	.....	1	1 1/4	3/8	...
B-167	M-1671	GB-167	GM-1671	1	1 1/4	7/16	.35
B-168	M-1681	GB-168	GM-1681	1	1 1/4	1/2	.40
B-1612	M-16121	GB-1612	GM-16121	1	1 1/4	3/4	.65
B-1616	M-16161	GB-1616	GM-16161	1	1 1/4	1	.90
B-1710	M-17101	GB-1710	GM-17101	1 1/16	1 5/16	5/8	.52
B-186	M-1861	GB-186	GM-1861	1 1/8	1 3/8	3/8	.27
B-188	M-1881	GB-188	GM-1881	1 1/8	1 3/8	1/2	.40
B-1812	M-18121	GB-1812	GM-18121	1 1/8	1 3/8	3/4	.65
B-1816	M-18161	GB-1816	GM-18161	1 1/8	1 3/8	1	.90
B-1910	M-19101	GB-1910	GM-19101	1 3/16	1 1/2	5/8	.49
B-1916	.....	GB-1916	.....	1 3/16	1 1/2	1	...
B-208	M-2081	GB-208	GM-2081	1 1/4	1 1/2	1/2	.40
B-2010	M-20101	GB-2010	GM-20101	1 1/4	1 1/2	5/8	.52
B-2012	M-20121	GB-2012	GM-20121	1 1/4	1 1/2	3/4	.65
B-2016	M-20161	GB-2016	GM-20161	1 1/4	1 1/2	1	.90
B-2020	M-20201	GB-2020	GM-20201	1 1/4	1 1/2	1 1/4	1.15

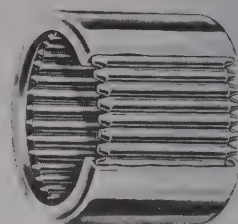
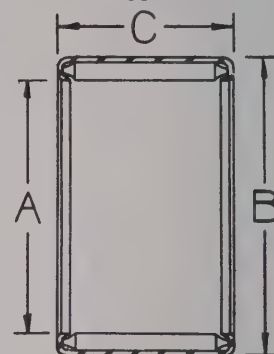
Precision and extra-precision bearings are not interchangeable.

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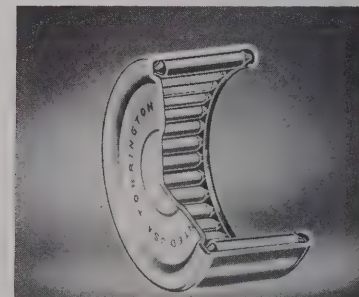
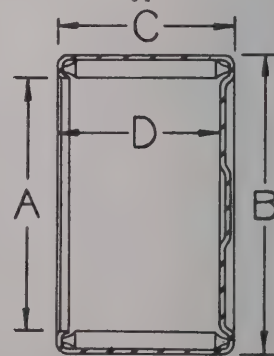
TORRINGTON NEEDLE BEARINGS

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PRECISION		EXTRA PRECISION		A	B	C	D
Open End B	Closed End M	Open End GB	Closed End GM	Nom'l Shaft Dia.	Nom'l O.D.	Length +.000 —.010	Min. Inside Depth M Series
B-218	M-2181	GB-218	GM-2181	1 $\frac{5}{16}$	1 $\frac{5}{8}$	1 $\frac{1}{2}$	.36
B-2110	M-21101	GB-2110	GM-21101	1 $\frac{5}{16}$	1 $\frac{5}{8}$	1 $\frac{1}{2}$	.49
B-228	M-2281	GB-228	GM-2281	1 $\frac{3}{8}$	1 $\frac{3}{4}$	1 $\frac{1}{2}$	.40
B-2212	M-22121	GB-2212	GM-22121	1 $\frac{3}{8}$	1 $\frac{3}{4}$	1 $\frac{3}{4}$	.65
B-2216	.....	GB-2216	.....	1 $\frac{3}{8}$	1 $\frac{3}{4}$	1	.....
B-2220	M-22201	GB-2220	GM-22201	1 $\frac{3}{8}$	1 $\frac{5}{8}$	1 $\frac{1}{4}$	1.15
B-248	M-2481	GB-248	GM-2481	1 $\frac{1}{2}$	1 $\frac{1}{2}$	1 $\frac{1}{2}$	.37
B-2410	M-24101	GB-2410	GM-24101	1 $\frac{1}{2}$	1 $\frac{1}{2}$	1 $\frac{5}{8}$	.49
B-2412	.....	GB-2412	.....	1 $\frac{1}{2}$	1 $\frac{1}{2}$	1 $\frac{3}{4}$	.....
B-2414	M-24141	GB-2414	GM-24141	1 $\frac{1}{2}$	1 $\frac{1}{2}$	1 $\frac{3}{8}$	.74
B-2416	M-24161	GB-2416	GM-24161	1 $\frac{1}{2}$	1 $\frac{1}{2}$	1	.86
B-2420	M-24201	GB-2420	GM-24201	1 $\frac{1}{2}$	1 $\frac{1}{2}$	1 $\frac{1}{4}$	1.11
B-268	.....	GB-268	.....	1 $\frac{5}{8}$	2	1 $\frac{1}{2}$	.....
B-2610	M-26101	GB-2610	GM-26101	1 $\frac{5}{8}$	2	1 $\frac{5}{8}$	.49
B-2620	M-26201	GB-2620	GM-26201	1 $\frac{5}{8}$	2	1 $\frac{1}{4}$	1.11
B-2812	M-28121	GB-2812	GM-28121	1 $\frac{3}{4}$	2 $\frac{1}{8}$	1 $\frac{3}{4}$	.62
B-2816	M-28161	GB-2816	GM-28161	1 $\frac{3}{4}$	2 $\frac{1}{8}$	1	.86
B-2824	M-28241	GB-2824	GM-28241	1 $\frac{3}{4}$	2 $\frac{1}{8}$	1 $\frac{1}{2}$	1.36
B-308	M-3081	GB-308	GM-3081	1 $\frac{7}{8}$	2 $\frac{1}{4}$	1 $\frac{1}{2}$	.36
B-3016	M-30161	GB-3016	GM-30161	1 $\frac{7}{8}$	2 $\frac{1}{4}$	1	.86
B-328	M-3281	GB-328	GM-3281	2	2 $\frac{3}{8}$	1 $\frac{1}{2}$	.36
B-3216	M-32161	GB-3216	GM-32161	2	2 $\frac{3}{8}$	1	.86
B-3220	M-32201	GB-3220	GM-32201	2	2 $\frac{3}{8}$	1 $\frac{1}{4}$	1.11
B-3224	.....	GB-3224	.....	2	2 $\frac{3}{8}$	1 $\frac{1}{2}$	.....
B-3228	M-32281	GB-3228	GM-32281	2	2 $\frac{3}{8}$	1 $\frac{3}{4}$	1.61
B-3416	M-34161	GB-3416	GM-34161	2 $\frac{1}{8}$	2 $\frac{1}{2}$	1	.86
B-3424	M-34241	GB-3424	GM-34241	2 $\frac{1}{8}$	2 $\frac{1}{2}$	1 $\frac{1}{2}$	1.36
B-3612	M-36121	GB-3612	GM-36121	2 $\frac{1}{4}$	2 $\frac{5}{8}$	1 $\frac{1}{2}$	.62
B-3624	M-36241	GB-3624	GM-36241	2 $\frac{1}{4}$	2 $\frac{5}{8}$	1 $\frac{1}{2}$	1.36
NB-4012	.....	GNB-4012	.....	2 $\frac{1}{2}$	2 $\frac{7}{8}$	1 $\frac{3}{4}$	.....
NB-4024	.....	GNB-4024	.....	2 $\frac{1}{2}$	2 $\frac{7}{8}$	1 $\frac{1}{2}$	.....
B-4216	M-42161	GB-4216	GM-42161	2 $\frac{3}{8}$	3	1	.86
B-4416	M-44161	GB-4416	GM-44161	2 $\frac{3}{4}$	3 $\frac{1}{8}$	1	.86
B-4420	M-44201	GB-4420	GM-44201	2 $\frac{3}{4}$	3 $\frac{1}{8}$	1 $\frac{1}{4}$	1.11
B-5612	.....	GB-5612	.....	3 $\frac{1}{2}$	4	1 $\frac{3}{4}$	.....
B-8812	.....	.....	.....	5 $\frac{1}{2}$	6	3 $\frac{3}{4}$	.....
B-11612	.....	.....	.....	7 $\frac{1}{4}$	7 $\frac{3}{4}$	3 $\frac{3}{4}$	.....

Open End
B, BH,
GB and GBH
typesOpen End
To secure maximum capacity
the shaft must be hardened to
Rockwell "C" 58, or equivalent.**LARGE ROLLER SERIES**

BH-57	MH-571	GBH-57	GMH-571	5 $\frac{1}{16}$	9 $\frac{1}{16}$	7 $\frac{1}{16}$	.34
BH-68	MH-681	GBH-68	GMH-681	3 $\frac{3}{8}$	5 $\frac{1}{8}$	1 $\frac{1}{2}$	.40
BH-78	MH-781	GBH-78	GMH-781	7 $\frac{1}{16}$	11 $\frac{1}{16}$	1 $\frac{1}{2}$	.40
BH-88	MH-881	GBH-88	GMH-881	1 $\frac{1}{2}$	3 $\frac{3}{4}$	1 $\frac{1}{2}$	.40
BH-810	MH-8101	GBH-810	GMH-8101	1 $\frac{1}{2}$	3 $\frac{3}{4}$	1 $\frac{1}{2}$	.52
BH-812	MH-8121	GBH-812	GMH-8121	1 $\frac{1}{2}$	3 $\frac{3}{4}$	1 $\frac{1}{2}$	.65
BH-912	MH-9121	GBH-912	GMH-9121	1 $\frac{1}{2}$	3 $\frac{3}{4}$	1 $\frac{1}{2}$	.65
BH-108	MH-1081	GBH-108	GMH-1081	1 $\frac{1}{2}$	3 $\frac{3}{4}$	1 $\frac{1}{2}$	.40
BH-1012	MH-10121	GBH-1012	GMH-10121	1 $\frac{1}{2}$	3 $\frac{3}{4}$	1 $\frac{1}{2}$	.65
BH-1016	.....	GBH-1016	.....	1 $\frac{1}{2}$	3 $\frac{3}{4}$	1	.....
BH-117	.....	GBH-117	.....	11 $\frac{1}{16}$	15 $\frac{1}{16}$	7 $\frac{1}{16}$	.....
BH-1110	MH-11101	GBH-1110	GMH-11101	11 $\frac{1}{16}$	15 $\frac{1}{16}$	5 $\frac{1}{8}$	.52
BH-1112	.....	GBH-1112	.....	11 $\frac{1}{16}$	15 $\frac{1}{16}$	3 $\frac{3}{4}$	.....
BH-1310	MH-13101	GBH-1310	GMH-13101	13 $\frac{1}{16}$	17 $\frac{1}{16}$	5 $\frac{1}{8}$	.63
BH-1312	MH-13121	GBH-1312	GMH-13121	13 $\frac{1}{16}$	17 $\frac{1}{16}$	3 $\frac{3}{4}$	.63
BH-1410	MH-14101	GBH-1410	GMH-14101	7 $\frac{3}{8}$	13 $\frac{1}{8}$	5 $\frac{1}{8}$	.50
BH-1412	MH-14121	GBH-1412	GMH-14121	7 $\frac{3}{8}$	13 $\frac{1}{8}$	3 $\frac{3}{4}$	.65
BH-168	MH-1681	GBH-168	GMH-1681	1	1 $\frac{1}{8}$	1 $\frac{1}{2}$	.38
BH-1610	.....	GBH-1610	.....	1	1 $\frac{1}{8}$	5 $\frac{1}{8}$	.....
BH-1612	MH-16121	GBH-1612	GMH-16121	1	1 $\frac{1}{8}$	3 $\frac{3}{4}$	.63
BH-1616	MH-16161	GBH-1616	GMH-16161	1	1 $\frac{1}{8}$	1	.88
BH-1620	.....	GBH-1620	.....	1	1 $\frac{1}{8}$	1 $\frac{1}{4}$	.....
BH-1624	MH-16241	GBH-1624	GMH-16241	1	1 $\frac{1}{8}$	1 $\frac{1}{2}$	1.38
BH-1812	MH-18121	GBH-1812	GMH-18121	1 $\frac{1}{8}$	1 $\frac{1}{2}$	3 $\frac{3}{4}$	.61
BH-1816	MH-18161	GBH-1816	GMH-18161	1 $\frac{1}{8}$	1 $\frac{1}{2}$	1	.86
BH-1820	MH-18201	GBH-1820	GMH-18201	1 $\frac{1}{8}$	1 $\frac{1}{2}$	1 $\frac{1}{4}$	1.11
BH-2012	MH-20121	GBH-2012	GMH-20121	1 $\frac{1}{4}$	1 $\frac{1}{2}$	3 $\frac{3}{4}$	.61
BH-2016	MH-20161	GBH-2016	GMH-20161	1 $\frac{1}{4}$	1 $\frac{1}{2}$	1	.86
BH-2020	MH-20201	GBH-2020	GMH-20201	1 $\frac{1}{4}$	1 $\frac{1}{2}$	1 $\frac{1}{4}$	1.11
BH-228	.....	GBH-228	.....	1 $\frac{3}{8}$	1 $\frac{3}{4}$	1 $\frac{1}{2}$	.....
BH-2212	MH-22121	GBH-2212	GMH-22121	1 $\frac{3}{8}$	1 $\frac{3}{4}$	3 $\frac{3}{4}$	.61
BH-2216	MH-22161	GBH-2216	GMH-22161	1 $\frac{3}{8}$	1 $\frac{3}{4}$	1	.86
BH-3312	.....	GBH-3312	.....	2 $\frac{1}{16}$	2 $\frac{17}{32}$	3 $\frac{3}{4}$	.....
BH-3316	MH-33161	GBH-3316	GMH-33161	2 $\frac{1}{16}$	2 $\frac{17}{32}$	1	.86
BH-3324	MH-33241	GBH-3324	GMH-33241	2 $\frac{1}{16}$	2 $\frac{17}{32}$	1 $\frac{1}{2}$	1.36
NBH-4812	.....	GNBH-4812	.....	3	3 $\frac{1}{2}$	3 $\frac{3}{4}$	.....
NBH-4824	.....	GNBH-4824	.....	3	3 $\frac{1}{2}$	1 $\frac{1}{2}$	.....

Closed End
M, MH,
GM and GMH
Types†Closed End
†Available with grease fitting on
special order.

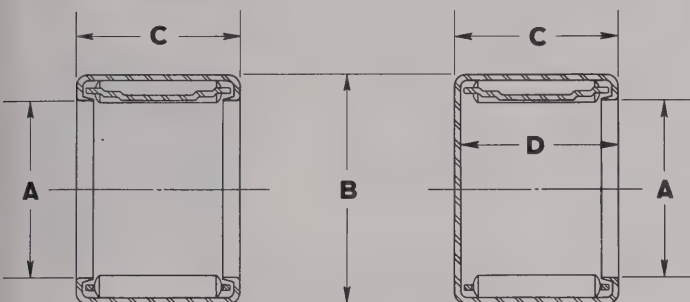
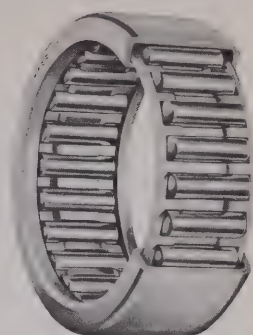
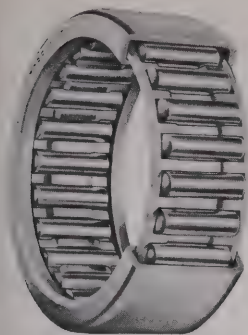
Precision and extra-precision bearings are not interchangeable.

TORRINGTON ROLLER BEARINGS

DRAWN CUP—ROLLER CAGE TYPE

The Torrington "J" and "JH" Series Roller Bearing is a non-separable assembly consisting of a Drawn Cup outer race, needle rollers and a one-piece hardened steel separator.

These extremely compact roller bearings are dimensionally interchangeable with Torrington Series "B" and "BH" needle bearings shown on pages 155 and 156.



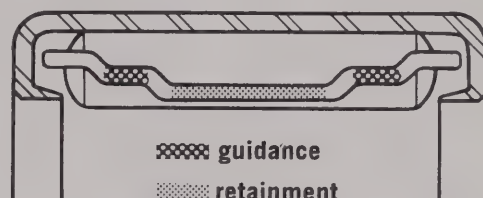
J SERIES

CATALOG NUMBER		A	B	C	D
Open End	Closed* End	Nominal Shaft Diam.	Nominal Housing Diam.	Length + .000 - .010	Minimum Inside Depth
J-45	MJ-451	1/4	7/16	5/16	.25
J-47	MJ-471	1/4	7/16	7/16	.38
J-55	MJ-551	5/16	1/2	5/16	.25
J-57	MJ-571	5/16	1/2	7/16	.38
J-65	MJ-651	3/8	9/16	5/16	.25
J-88	MJ-881	1/2	11/16	1/2	.44
J-98	MJ-981	9/16	3/4	1/2	.44
J-108	MJ-1081	5/8	13/16	1/2	.44
J-1210	MJ-12101	3/4	1	5/8	.57
J-1212	MJ-12121	3/4	1	3/4	.69
J-1812	MJ-18121	1 1/8	1 3/8	3/4	.69
J-2412	MJ-24121	1 1/2	1 7/8	3/4	.68
J-2816	MJ-28161	1 3/4	2 1/8	1	.92
J-2824	MJ-28241	1 3/4	2 1/8	1 1/2	1.42
J-3216	MJ-32161	2	2 3/8	1	.93

JH SERIES

JH-57	MJH-571	5/16	9/16	7/16	.37
JH-68	MJH-681	3/8	5/8	1/2	.43
JH-78	MJH-781	7/16	11/16	1/2	.43
JH-88	MJH-881	1/2	3/4	1/2	.43
JH-812	MJH-8121	1/2	3/4	3/4	.68
JH-98	MJH-981	9/16	13/16	1/2	.44
JH-1010	MJH-10101	5/8	7/8	5/8	.56
JH-1016	MJH-10161	5/8	7/8	1	.94
JH-1110	MJH-11101	1 1/16	1 5/16	5/8	.56
JH-1312	MJH-13121	1 3/16	1 1/8	3/4	.68
JH-1412	MJH-14121	7/8	1 3/16	3/4	.68
JH-1416	MJH-14161	7/8	1 3/16	1	.93
JH-1612	MJH-16121	1	1 5/16	3/4	.68
JH-1616	MJH-16161	1	1 5/16	1	.93
JH-1812	MJH-18121	1 1/8	1 1/2	3/4	.68
JH-1816	MJH-18161	1 1/8	1 1/2	1	.93
JH-1818	MJH-18181	1 1/8	1 1/2	1 1/8	1.05
JH-2016	MJH-20161	1 1/4	1 5/8	1	.93
JH-2212	MJH-22121	1 3/8	1 3/4	3/4	.68
JH-2216	MJH-22161	1 3/8	1 3/4	1	.93

*Not all sizes carried in stock.



Drawn Cup Race Construction—The Drawn Cup Roller Bearing is supplied as a non-separable unit for easy handling and assembly. The case-hardened, precision shell acts as the outer race for the rollers, deriving roundness and dimensional stability from the housing surrounding it. This design reduces radial space requirements to a minimum. A hardened and ground shaft serves as the inner race, allowing the designer to employ larger and stiffer shafts. For mounting on soft shafts, the bearing unit may be combined with available inner races as shown on page 158.

Retainer Construction. The one-piece, heat-treated steel retainer insures rigidity and freedom from wear.

The portion of the cage bar that retains the rollers does not contact the roller while bearing is operating. Thus, there can be no wear which might affect roller retention. The retainer is shaft-riding for low frictional characteristics.

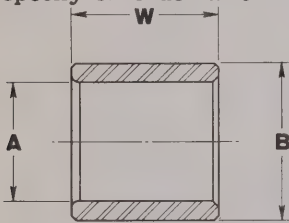
The retainer contacts rollers at the ends only and at the roller pitch line where accurate guidance is achieved with the least effort. Pitch-line guidance at the roller ends imposes minimum stress on the retainer and assures roller stability. Contact area and force required for effective guidance are reduced, thus minimizing drag between cage and rollers.

This design also leaves the cage center open for free circulation of lubricant.

These features insure highly effective roller guidance, minimum internal friction and efficient lubrication for long service life.

TORRINGTON INNER RACES

Inner races for use with type DC Drawn Cup Needle and Roller bearings are available in two series—standard IR's where the length is .010" longer than the nominal bearing length—and the IRA's where the length is $\frac{1}{32}$ " longer than the nominal bearing length. If desired, they may be obtained with an oil hole in center and lubrication groove in bore. Please specify on order when required.

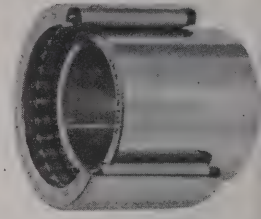


Inner Races are normally stocked separately.

Bearing and Inner Race assemblies, packaged as a unit, are available at extra cost.

Race should be assembled to the shaft with stamped end out, since the un-stamped end is provided with a generous radius which will clear the maximum shaft fillet radius indicated below.

These inner races are designed to be a slip fit on the shaft and should be clamped against a shoulder. If press fit is used to hold inner race please consult us for recommended shaft tolerances.



CATALOG NUMBER Inner Race Number	RACE DIMENSIONS, INCHES				ASSOCIATED OUTER RACE AND ROLLER ASSEMBLY REFERENCE			
	A Bore +.0000 -.0005	B O.D. +.0000 -.0005	W Length +.000 -.005	r Shaft Fillet Max.	B Series Bearings See page 155	BH Series Bearings See page 156	J Series Bearings See page 157	JH Series Bearings See page 157
IR-68	.3750	.5625	.510	.025	B-98	—	J-98	JH-98
IR-68-1	.3750	.6250	.510	.025	B-108	BH-108	J-108	—
IR-612	.3750	.5625	.760	.025	B-912	BH-912	—	—
IR-612-1	.3750	.6250	.760	.025	B-1012	BH-1012	—	—
IR-88	.5000	.7500	.510	.040	B-128	—	—	—
IR-812	.5000	.7500	.760	.040	B-1212	—	J-1212	—
IR-1012	.6250	.8750	.760	.040	B-1412	BH-1412	—	JH-1412
IR-1016	.6250	.8750	1.010	.040	B-1416	—	—	JH-1416
IR-128	.7500	1.0000	.510	.040	B-168	BH-168	—	—
IR-1212	.7500	1.0000	.760	.040	B-1612	BH-1612	—	JH-1612
IR-1216	.7500	1.0000	1.010	.040	B-1616	BH-1616	—	JH-1616
IR-1220	.7500	1.0000	1.260	.040	—	BH-1620	—	—
IR-1224	.7500	1.0000	1.510	.040	—	BH-1624	—	—
IR-1312	.8125	1.0000	.760	.040	B-1612	BH-1612	—	JH-1612
IR-1316	.8125	1.0000	1.010	.040	B-1616	BH-1616	—	JH-1616
IR-1416	.8750	1.1250	1.010	.040	B-1816	BH-1816	—	JH-1816
IR-1516	.9375	1.1250	1.010	.040	B-1816	BH-1816	—	JH-1816
IR-1612	1.0000	1.2500	.760	.040	B-2012	BH-2012	—	—
IR-1616	1.0000	1.2500	1.010	.040	B-2016	BH-2016	—	JH-2016
IR-1812	1.1250	1.3750	.760	.040	B-2212	BH-2212	—	JH-2212
IR-1816	1.1250	1.3750	1.010	.040	B-2216	BH-2216	—	JH-2216
IR-1820	1.1250	1.3750	1.260	.040	B-2220	—	—	—
IR-1916	1.1875	1.5000	1.010	.040	B-2416	—	—	—
IR-1920	1.1875	1.5000	1.260	.040	B-2420	—	—	—
IR-2016	1.2500	1.5000	1.010	.060	B-2416	—	—	—
IR-2020	1.2500	1.5000	1.260	.060	B-2420	—	—	—
IR-2220	1.3750	1.6250	1.260	.060	B-2620	—	—	—
IR-2316	1.4375	1.7500	1.010	.060	B-2816	—	J-2816	—
IR-2324	1.4375	1.7500	1.510	.060	B-2824	—	J-2824	—
IR-2416	1.5000	1.7500	1.010	.060	B-2816	—	J-2816	—
IR-2424	1.5000	1.7500	1.510	.060	B-2824	—	J-2824	—
IR-2724	1.6875	2.0625	1.510	.060	—	BH-3324	—	—
IR-2824	1.7500	2.0625	1.510	.060	—	BH-3324	—	—
IR-2916	1.8125	2.0625	1.010	.060	—	BH-3316	—	—
IR-2924	1.8125	2.0625	1.510	.060	—	BH-3324	—	—
IR-3024	1.8750	2.1250	1.510	.060	B-3424	—	—	—
IR-4016	2.5000	2.7500	1.010	.060	B-4416	—	—	—
IRA-3	.1900	.3750	.534*	.025	B-68	BH-68	—	JH-68
IRA-4	.2500	.4375	.534*	.025	B-78	BH-78	—	JH-78
IRA-5	.3125	.5000	.534*	.025	B-88	—	J-88	JH-88
IRA-6	.3750	.5625	.784*	.025	B-912	BH-912	—	—
IRA-7	.4375	.6250	.784*	.025	B-1012	BH-1012	—	—
IRA-8	.5000	.7500	.784*	.040	B-1212	—	J-1212	—
IRA-10	.6250	.8750	.784*	.040	B-1412	BH-1412	—	JH-1412
IRA-12	.7500	1.0000	1.034*	.040	B-1616	BH-1616	—	JH-1616
IRA-14	.8750	1.1250	1.034*	.040	B-1816	BH-1816	—	JH-1816
IRA-16	1.0000	1.2500	1.034*	.040	B-2016	BH-2016	—	JH-2016
IRA-20	1.2500	1.5000	1.284*	.060	B-2420	—	—	—

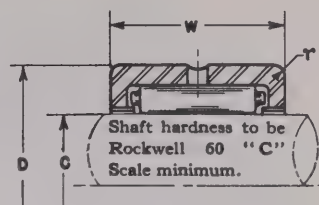
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NEED HELP ON BEARINGS—CALL US



TORRINGTON NEEDLE BEARINGS

HEAVY DUTY HD TYPE



This series being superseded by "HJ" series shown on page 160.

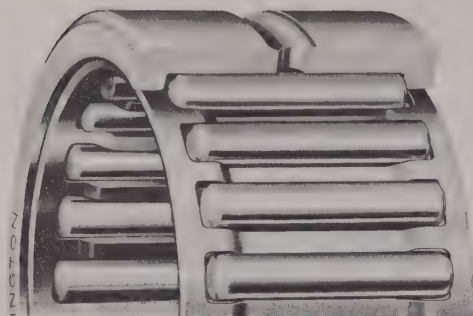
The construction of the Heavy Duty Needle Bearing is such that it can be used without an inner race when it is necessary to conserve radial space.

WITHOUT INNER RACES

WITH INNER RACES		Bore	Outside Dia.	Width +.000—.005	
Complete Bearing No. (Includes Inner Race)				Outer Race	Inner Race
101812	*IR-061012	.3750	1.1250	.750	.760
122012	IR-081212	.5000	1.2500	.750	.760
122016	IR-081216	.5000	1.2500	1.000	1.010
142212	*IR-101412	.6250	1.3750	.750	.760
142212	IR-111412	.6875	1.3750	.750	.760
162412	IR-121612	.7500	1.5000	.750	.760
162416	IR-121616	.7500	1.5000	1.000	1.010
182616	IR-141816	.8750	1.6250	1.000	1.010
182620	IR-141820	.8750	1.6250	1.250	1.260
182616	IR-151816	.9375	1.6250	1.000	1.010
182620	IR-151820	.9375	1.6250	1.250	1.260
202816	IR-162016	1.0000	1.7500	1.000	1.010
202820	IR-162020	1.0000	1.7500	1.250	1.260
223016	IR-182216	1.1250	1.8750	1.000	1.010
223020	IR-182220	1.1250	1.8750	1.250	1.260
243320	IR-192420	1.1875	2.0625	1.250	1.260
243320	IR-202420	1.2500	2.0625	1.250	1.260
263516	IR-212616	1.3125	2.1875	1.000	1.010
263520	IR-212620	1.3125	2.1875	1.250	1.260
263520	IR-222620	1.3750	2.1875	1.250	1.260
283720	IR-222820	1.3750	2.3125	1.250	1.260
283720	IR-232820	1.4375	2.3125	1.250	1.260
283720	IR-242820	1.5000	2.3125	1.250	1.260
324120	IR-243220	1.5000	2.5625	1.250	1.260
324120	IR-253220	1.5625	2.5625	1.250	1.260
324120	IR-263220	1.6250	2.5625	1.250	1.260
324120	IR-273220	1.6875	2.5625	1.250	1.260
*364824	*IR-283624	1.7500	3.0000	1.500	1.510
364828	IR-283628	1.7500	3.0000	1.750	1.760
405224	IR-314024	1.9375	3.2500	1.500	1.510
405228	IR-314028	1.9375	3.2500	1.750	1.760
405224	IR-324024	2.0000	3.2500	1.500	1.510
405228	IR-324028	2.0000	3.2500	1.750	1.760
445628	IR-354428	2.1875	3.5000	1.750	1.760
*445624	*IR-364424	2.2500	3.5000	1.500	1.510
445628	IR-364428	2.2500	3.5000	1.750	1.760
486028	IR-384828	2.3750	3.7500	1.750	1.760
486024	IR-404824	2.5000	3.7500	1.500	1.510
486028	IR-404828	2.5000	3.7500	1.750	1.760
526828	IR-445228	2.7500	4.2500	1.750	1.760
*526832	*IR-445232	2.7500	4.2500	2.000	2.010
567232	IR-475632	2.9375	4.5000	2.000	2.010
567232	IR-485632	3.0000	4.5000	2.000	2.010
607632	IR-506032	3.1250	4.7500	2.000	2.010
607632	IR-526032	3.2500	4.7500	2.000	2.010
648032	*IR-526432	3.2500	5.0000	2.000	2.010
648032	IR-546432	3.3750	5.0000	2.000	2.010
648032	IR-566432	3.5000	5.0000	2.000	2.010
688432					
	IR-566832	3.5000	5.2500	2.000	2.010
688432	IR-606832	3.7500	5.2500	2.000	2.010
729636	IR-607236	3.7500	6.0000	2.250	2.260
*729640	*IR-607240	3.7500	6.0000	2.500	2.515
8010436	IR-648036	4.0000	6.5000	2.250	2.260
*8010440	*IR-648040	4.0000	6.5000	2.500	2.515
8010436	IR-688036	4.2500	6.5000	2.250	2.260
8811240	IR-728840	4.5000	7.0000	2.500	2.515
8811248	IR-728848	4.5000	7.0000	3.000	3.015
9211648	IR-769248	4.7500	7.2500	3.000	3.015
9612040	IR-809640	5.0000	7.5000	2.500	2.515
9612048	IR-809648	5.0000	7.5000	3.000	3.015
10412840	IR-8810440	5.5000	8.0000	2.500	2.515
10412848	IR-8810448	5.5000	8.0000	3.000	3.015
11614648	IR-9611648	6.0000	9.1250	3.000	3.015
12415448	IR-10412448	6.5000	9.6250	3.000	3.015
13216248	IR-11213248	7.0000	10.1250	3.000	3.015
14017048	IR-12014048	7.5000	10.6250	3.000	3.015
14817848	IR-12814848	8.0000	11.1250	3.000	3.015

Bearing No. (Less Inner Race)	Shaft Dia. C	Bearing Out. Dia. D	Width +.000 -.005
101812	.6250	1.1250	.750
122012	.7500	1.2500	.750
122016	.7500	1.2500	1.000
142212	.8750	1.3750	.750
142216	.8750	1.3750	1.000
162412	1.0000	1.5000	.750
162416	1.0000	1.5000	1.000
182616	1.1250	1.6250	1.000
182620	1.1250	1.6250	1.250
202816	1.2500	1.7500	1.000
202820	1.2500	1.7500	1.250
223016	1.3750	1.8750	1.000
223020	1.3750	1.8750	1.250
243320	1.5000	2.0625	1.250
263516	1.6250	2.1875	1.000
263520	1.6250	2.1875	1.250
283716	1.7500	2.3125	1.000
283720	1.7500	2.3125	1.250
303920	1.8750	2.4375	1.250
324120	2.0000	2.5625	1.250
*364824	2.2500	3.0000	1.500
364828	2.2500	3.0000	1.750
405224	2.5000	3.2500	1.500
405228	2.5000	3.2500	1.750
*445624	2.7500	3.5000	1.500
445628	2.7500	3.5000	1.750
486024	3.0000	3.7500	1.500
486028	3.0000	3.7500	1.750
526828	3.2500	4.2500	1.750
*526832	3.2500	4.2500	2.000
567232	3.5000	4.5000	2.000
607632	3.7500	4.7500	2.000
648032	4.0000	5.0000	2.000
688432	4.2500	5.2500	2.000
729636	4.5000	6.0000	2.250
*729640	4.5000	6.0000	2.500
8010436	5.0000	6.5000	2.250
8010440	5.0000	6.5000	2.500
8811240	5.5000	7.0000	2.500
8811248	5.5000	7.0000	3.000
9211648	5.7500	7.2500	3.000
9612040	6.0000	7.5000	2.500
9612048	6.0000	7.5000	3.000
10412840	6.5000	8.0000	2.500
10412848	6.5000	8.0000	3.000
11614648	7.2500	9.1250	3.000
12415448	7.7500	9.6250	3.000
13216248	8.2500	10.1250	3.000
14017048	8.7500	10.6250	3.000
14817848	9.2500	11.1250	3.000

*Not stocked—Consult for availability.

TORRINGTON HEAVY DUTY ROLLER BEARINGS**HJ SERIES**

The Torrington Heavy Duty Roller Bearing can be furnished with or without an inner race. A hardened and ground shaft can serve as the inner race, conserving radial space, also permitting use of larger and stiffer shafts.

When the inner race is not used, the shaft must be at least surface hardened to a minimum of 58 Rockwell "C" scale and ground.

WITHOUT INNER RACES

Bearing No. (Less Inner Race)	Shaft Dia.	Bearing Out. Dia.	Width + .000 — .005
HJ-101812	.6250	1.1250	.750
HJ-122012	.7500	1.2500	.750
HJ-122016	.7500	1.2500	1.000
HJ-142212	.8750	1.3750	.750
HJ-142216	.8750	1.3750	1.000
HJ-162412	1.0000	1.5000	.750
HJ-162416	1.0000	1.5000	.750
HJ-182616	1.1250	1.6250	1.000
HJ-182620	1.1250	1.6250	1.250
HJ-202816	1.2500	1.7500	1.000
HJ-202820	1.2500	1.7500	1.250
HJ-223016	1.3750	1.8750	1.000
HJ-223020	1.3750	1.8750	1.250
HJ-243316	1.5000	2.0625	1.000
HJ-243320	1.5000	2.0625	1.250
HJ-263516	1.6250	2.1875	1.000
HJ-263520	1.6250	2.1875	1.250
HJ-283716	1.7500	2.3125	1.000
HJ-283720	1.7500	2.3125	1.250
HJ-303920	1.8750	2.4375	1.250
HJ-324116	2.0000	2.5625	1.000
HJ-324120	2.0000	2.5625	1.250
HJ-364824	2.2500	3.0000	1.500
HJ-364828	2.2500	3.0000	1.750
HJ-405224	2.5000	3.2500	1.500
HJ-405228	2.5000	3.2500	1.750
HJ-445624	2.7500	3.5000	1.500
HJ-445628	2.7500	3.5000	1.750
HJ-486024	3.0000	3.7500	1.500
HJ-486028	3.0000	3.7500	1.750
HJ-526828	3.2500	4.2500	1.750
HJ-526832	3.2500	4.2500	2.000
HJ-567232	3.5000	4.5000	2.000
HJ-607632	3.7500	4.7500	2.000
HJ-648032	4.0000	5.0000	2.000
HJ-688432	4.2500	5.2500	2.000
HJ-729636	4.5000	6.0000	2.250
*HJ-729640	4.5000	6.0000	2.500
HJ-8010436	5.0000	6.5000	2.250
HJ-8010440	5.0000	6.5000	2.500
HJ-8811240	5.5000	7.0000	2.500
HJ-8811248	5.5000	7.0000	3.000
HJ-9211648	5.7500	7.2500	3.000
HJ-9612040	6.0000	7.5000	2.500
HJ-9612048	6.0000	7.5000	3.000
HJ-10412840	6.5000	8.0000	2.500
HJ-10412848	6.5000	8.0000	3.000
HJ-11614648	7.2500	9.1250	3.000
HJ-12415448	7.7500	9.6250	3.000
HJ-13216248	8.2500	10.1250	3.000
HJ-14017048	8.7500	10.6250	3.000
HJ-14817848	9.2500	11.1250	3.000

*Consult Factory for Availability.

Torrington Heavy Duty Roller Bearings have a one-piece steel retainer insuring highly effective roller guidance with minimum internal friction. These bearings are successful in applications where there is some inherent instability, deflection or misalignment.

WITH INNER RACES

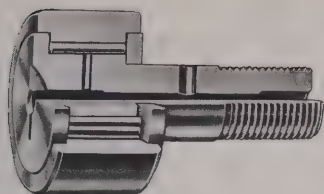
Complete Bearing No. (Includes Inner Race)		Bore	Outside Dia.	Width + .000 — .005	
				Outer Race	Inner Race
HJ-101812	IR-061012	.3750	1.1250	.750	.760
HJ-122012	IR-081212	.5000	1.2500	.750	.760
HJ-122016	IR-081216	.5000	1.2500	1.000	1.010
HJ-142212	IR-101412	.6250	1.3750	.750	.760
HJ-142216	IR-101416	.6250	1.3750	1.000	1.010
HJ-142212	IR-111412	.6875	1.3750	.750	.760
HJ-162412	IR-121612	.7500	1.5000	.750	.760
HJ-162416	IR-121616	.7500	1.5000	1.000	1.010
HJ-182616	IR-141816	.8750	1.6250	1.000	1.010
HJ-182620	IR-141820	.8750	1.6250	1.250	1.260
HJ-182616	IR-151816	.9375	1.6250	1.000	1.010
HJ-182620	IR-151820	.9375	1.6250	1.250	1.260
HJ-202816	IR-162016	1.0000	1.7500	1.000	1.010
HJ-202820	IR-162020	1.0000	1.7500	1.250	1.260
HJ-223016	IR-182216	1.1250	1.8750	1.000	1.010
HJ-223020	IR-182220	1.1250	1.8750	1.250	1.260
HJ-243320	IR-192420	1.1875	2.0625	1.250	1.260
HJ-243316	IR-202416	1.2500	2.0625	1.000	1.010
HJ-243320	IR-202420	1.2500	2.0625	1.250	1.260
HJ-263516	IR-212616	1.3125	2.1875	1.000	1.010
HJ-263520	IR-212620	1.3125	2.1875	1.250	1.260
HJ-283720	IR-222820	1.3750	2.3125	1.250	1.260
HJ-283716	IR-232816	1.4375	2.3125	1.000	1.010
HJ-283720	IR-232820	1.4375	2.3125	1.250	1.260
HJ-283716	IR-242816	1.5000	2.3125	1.000	1.010
HJ-283720	IR-242820	1.5000	2.3125	1.250	1.260
HJ-324120	IR-243220	1.5000	2.5625	1.250	1.260
HJ-303920	*IR-253020	1.5625	2.4375	1.250	1.260
HJ-324120	IR-253220	1.5625	2.5625	1.250	1.260
HJ-324120	IR-263220	1.6250	2.5625	1.250	1.260
HJ-324116	*IR-273216	1.6875	2.5625	1.000	1.010
HJ-324120	IR-273220	1.6875	2.5625	1.250	1.260
HJ-364824	IR-283624	1.7500	3.0000	1.500	1.510
HJ-364828	IR-283628	1.7500	3.0000	1.750	1.760
HJ-405224	IR-314024	1.9375	3.2500	1.500	1.510
HJ-405228	IR-314028	1.9375	3.2500	1.750	1.760
HJ-405224	IR-324024	2.0000	3.2500	1.500	1.510
HJ-405228	IR-324028	2.0000	3.2500	1.750	1.760
HJ-445628	IR-354428	2.1875	3.5000	1.750	1.760
HJ-445624	IR-364424	2.2500	3.5000	1.500	1.510
HJ-445628	IR-364428	2.2500	3.5000	1.750	1.760
HJ-486028	IR-384828	2.3750	3.7500	1.750	1.760
HJ-486024	IR-404824	2.5000	3.7500	1.500	1.510
HJ-486028	IR-404828	2.5000	3.7500	1.750	1.760
HJ-526828	IR-445228	2.7500	4.2500	1.750	1.760
HJ-526832	*IR-445232	2.7500	4.2500	2.000	2.010
HJ-567232	IR-475632	2.9375	4.5000	2.000	2.010
HJ-567232	IR-485632	3.0000	4.5000	2.000	2.010
HJ-607632	IR-506032	3.1250	4.7500	2.000	2.010
HJ-607632	IR-526032	3.2500	4.7500	2.000	2.010
HJ-648032	IR-526432	3.2500	5.0000	2.000	2.010
HJ-648032	IR-546432	3.3750	5.0000	2.000	2.010
HJ-648032	IR-566432	3.5000	5.0000	2.000	2.010
HJ-688432	IR-566832	3.5000	5.2500	2.000	2.010
HJ-688432	IR-606832	3.7500	5.2500	2.000	2.010
HJ-729636	IR-607236	3.7500	6.0000	2.250	2.260
HJ-729640	*IR-607240	3.7500	6.0000	2.500	2.510
HJ-8010436	IR-648036	4.0000	6.5000	2.250	2.265
HJ-8010440	IR-648040	4.0000	6.5000	2.500	2.515
HJ-8010436	IR-688036	4.2500	6.5000	2.250	2.265
HJ-8811240	IR-728840	4.5000	7.0000	2.500	2.515
HJ-8811248	IR-728848	4.5000	7.0000	3.000	3.015
HJ-9211648	IR-769248	4.7500	7.2500	3.000	3.015
HJ-9612040	IR-809640	5.0000	7.5000	2.500	2.515
HJ-9612048	IR-809648	5.0000	7.5000	3.000	3.015
HJ-10412840	IR-8810440	5.5000	8.0000	2.500	2.515
HJ-10412848	IR-8810448	5.5000	8.0000	3.000	3.015
HJ-11614648	IR-9611648	6.0000	9.1250	3.000	3.015
HJ-12415448	IR-10412448	6.5000	9.6250	3.000	3.015
HJ-13216248	IR-11213248	7.0000	10.1250	3.000	3.015
HJ-14017048	IR-12014048	7.5000	10.6250	3.000	3.015
HJ-14817848	IR-12814848	8.0000	11.1250	3.000	3.015

*Consult Factory for Availability.

NEED HELP ON BEARINGS—CALL US

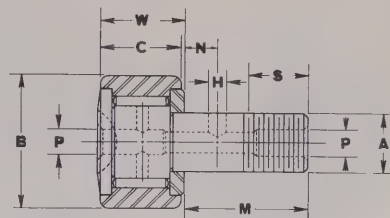
TORRINGTON CAM FOLLOWERS

CR SERIES



The CR type needle bearing is designed for specific use as a cam or track roller with an integral stud permitting cantilever mounting.

Soft stud core provides maximum toughness and greater resistance to shock loads.



Bearing Number	A Stud Dia. + .001 — .000	B Roller O.D. + .000 — .001	W Overall Width	C Roller Width + .000 — .005	M Stud Length	S Minimum Perfect Thread Length	Threads UNF	N	H	P	Bore Dia. for Stud	
											Max.	Min.
CR-8	.1900	.500	$\frac{3}{16}$	.344	$\frac{1}{2}$	$\frac{1}{4}$	10x32	none	none	$\frac{1}{16}$ *	.1905	.1900
CR-8-1	.1900	.500	$\frac{13}{32}$	.375	$\frac{5}{8}$	$\frac{1}{4}$	10x32	none	none	$\frac{1}{16}$ *	.1905	.1900
CR-10	.2500	.625	$\frac{7}{16}$	.406	$\frac{5}{8}$	$\frac{5}{16}$	$\frac{1}{4}$ x28	none	none	$\frac{1}{16}$ *	.2505	.2500
CR-10-1	.2500	.625	$\frac{15}{32}$	.438	$\frac{3}{4}$	$\frac{5}{16}$	$\frac{1}{4}$ x28	none	none	$\frac{1}{16}$ *	.2505	.2500
CR-12	.3750	.750	$\frac{17}{32}$	.500	$\frac{7}{8}$	$\frac{3}{8}$	$\frac{3}{8}$ x24	$\frac{1}{4}$	$\frac{3}{32}$	$\frac{3}{16}$	.3755	.3750
CR-14	.3750	.875	$\frac{17}{32}$	.500	$\frac{7}{8}$	$\frac{3}{8}$	$\frac{3}{8}$ x24	$\frac{1}{4}$	$\frac{3}{32}$	$\frac{3}{16}$	.3755	.3750
CR-16	.4375	1.000	$\frac{21}{32}$	.625	1	$\frac{1}{2}$	$\frac{1}{16}$ x20	$\frac{1}{4}$	$\frac{1}{16}$	$\frac{3}{16}$	.4380	.4375
CR-18	.4375	1.125	$\frac{21}{32}$	.625	1	$\frac{1}{2}$	$\frac{1}{16}$ x20	$\frac{1}{4}$	$\frac{1}{16}$	$\frac{3}{16}$	.4380	.4375
CR-20	.5000	1.250	$\frac{25}{32}$	.750	$1\frac{1}{4}$	$\frac{5}{8}$	$\frac{1}{2}$ x20	$\frac{5}{16}$	$\frac{1}{8}$	$\frac{3}{16}$	.5005	.5000
CR-22	.5000	1.375	$\frac{25}{32}$	.750	$1\frac{1}{4}$	$\frac{5}{8}$	$\frac{1}{2}$ x20	$\frac{5}{16}$	$\frac{1}{8}$	$\frac{3}{16}$	.5005	.5000
CR-24	.6250	1.500	$\frac{29}{32}$	.875	$1\frac{1}{2}$	$\frac{3}{4}$	$\frac{5}{8}$ x18	$\frac{3}{8}$	$\frac{5}{32}$	$\frac{3}{16}$	.6255	.6250
CR-26	.6250	1.625	$\frac{29}{32}$	.875	$1\frac{1}{2}$	$\frac{3}{4}$	$\frac{5}{8}$ x18	$\frac{3}{8}$	$\frac{5}{32}$	$\frac{3}{16}$	.6255	.6250
CR-28	.7500	1.750	$\frac{29}{32}$	1.000	$1\frac{3}{4}$	$\frac{7}{8}$	$\frac{3}{4}$ x16	$\frac{7}{16}$	$\frac{5}{32}$	$\frac{3}{16}$	.7505	.7500
CR-30	.7500	1.875	$\frac{29}{32}$	1.000	$1\frac{3}{4}$	$\frac{7}{8}$	$\frac{3}{4}$ x16	$\frac{7}{16}$	$\frac{5}{32}$	$\frac{3}{16}$	.7505	.7500
CR-32	.8750	2.000	$\frac{19}{16}$	1.250	2	1	$\frac{1}{2}$ x14	$\frac{1}{2}$	$\frac{5}{16}$	$\frac{3}{16}$	.8755	.8750
CR-36	.8750	2.250	$\frac{19}{16}$	1.250	2	1	$\frac{1}{2}$ x14	$\frac{1}{2}$	$\frac{5}{16}$	$\frac{3}{16}$	.8755	.8750

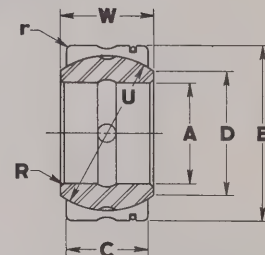
*No lubrication hole in threaded end.

TORRINGTON SELF-ALIGNING BALL BUSHINGS

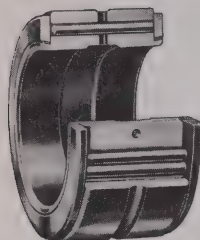


Of simple design, the bushing consists of a steel ball housed in a mating, spherically ground outer ring.

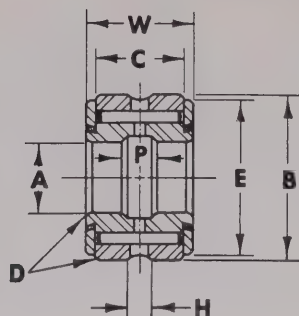
Both the inner and outer rings are manufactured from bearing quality steel, through hardened to Rockwell C 60-63 and precision ground. The outer ring is diametrically fractured after finish grinding to permit assembly around the inner ring. The halves of the outer ring are held together by a retaining wire to facilitate handling.



CATALOG NUMBER		A		B		W	C	r	R	D
Series SBB	Old Number	Bore		O.D.		Inner Ring Length	Outer Ring Length	Housing Fillet	Shaft Fillet	Shaft Shoulder Diameter
		Max.	Min.	Max.	Min.	+ .000 — .005	+ .000 — .005	Max.	Max.	
5SBB8	SBB8	.5000	.4997	.8750	.8746	.437	.375	.022	.015	$\frac{9}{16}$
6SBB10	SBB10	.6250	.6247	1.0625	1.0621	.547	.469	.032	.022	$\frac{43}{64}$
7SBB12	SBB12	.7500	.7496	1.2500	1.2495	.656	.562	.032	.022	$\frac{21}{32}$
8SBB14	SBB14	.8750	.8746	1.4375	1.4370	.765	.656	.032	.022	$\frac{65}{64}$
10SBB16	SBB16	1.0000	.9996	1.6250	1.6245	.875	.750	.032	.022	1 $\frac{1}{8}$
12SBB20	SBB20	1.2500	1.2495	2.0000	1.9995	1.093	.937	.032	.022	1 $\frac{13}{32}$
13SBB22	SBB22	1.3750	1.3745	2.1875	2.1870	1.187	1.031	.032	.022	1 $\frac{17}{32}$
15SBB24	SBB24	1.5000	1.4995	2.4375	2.4370	1.312	1.125	.032	.022	1 $\frac{45}{64}$
15SBB24 A0130	SBB24A	1.5055	1.5050	2.4375	2.4370	1.312	1.125	.032	.022	1 $\frac{45}{64}$
17SBB28	SBB28	1.7500	1.7495	2.8125	2.8120	1.531	1.312	.032	.022	1 $\frac{31}{32}$
17SBB28 A0130	SBB28A	1.7550	1.7545	2.8125	2.8120	1.531	1.312	.032	.022	1 $\frac{31}{32}$
20SBB32	SBB32	2.0000	1.9995	3.1875	3.1870	1.750	1.500	.032	.022	2 $\frac{1}{4}$
22SBB36	SBB36	2.2500	2.2494	3.5625	3.5619	1.969	1.687	.032	.022	2 $\frac{1}{8}$
22SBB36 A0130	SBB36B	2.2556	2.2550	3.5625	3.5619	1.969	1.687	.032	.022	2 $\frac{1}{8}$
18SBB36 A0130	SBB36C	1.8755	1.8750	3.5625	3.5619	1.969	1.687	.032	.022	2 $\frac{1}{8}$
25SBB40	SBB40	2.5000	2.4994	3.9375	3.9369	2.187	1.875	.032	.022	2 $\frac{27}{32}$
27SBB44	SBB44	2.7500	2.7494	4.3750	4.3744	2.406	2.062	.032	.022	3 $\frac{1}{8}$
30SBB48	SBB48	3.0000	2.9994	4.7500	4.7494	2.625	2.250	.032	.022	3 $\frac{13}{32}$
32SBB52	SBB52	3.2500	3.2492	5.1250	5.1242	2.844	2.437	.032	.022	3 $\frac{45}{64}$
35SBB56	SBB56	3.5000	3.4992	5.5000	5.4992	3.062	2.625	.032	.022	3 $\frac{31}{32}$
37SBB60	SBB60	3.7500	3.7492	5.8750	5.8742	3.281	2.812	.032	.022	4 $\frac{1}{4}$
40SBB64	SBB64	4.0000	3.9992	6.2500	6.2490	3.500	3.000	.032	.022	4 $\frac{9}{16}$
42SBB68	SBB68	4.2500	4.2492	6.6250	6.6240	3.719	3.187	.044	.032	4 $\frac{27}{32}$
45SBB72	SBB72	4.5000	4.4992	7.0000	6.9990	3.937	3.375	.044	.032	5 $\frac{1}{8}$
47SBB76	SBB76	4.7500	4.7492	7.3750	7.3738	4.156	3.562	.044	.032	5 $\frac{13}{32}$
50SBB80	SBB80	5.0000	4.9990	7.7500	7.7488	4.375	3.750	.044	.032	5 $\frac{11}{16}$
50SBB96	SBB96	6.0000	5.9990	8.7500	8.7488	4.750	4.125	.044	.032	6 $\frac{13}{32}$

TORRINGTON AIRCRAFT BEARINGS

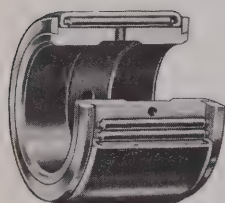
NBC series



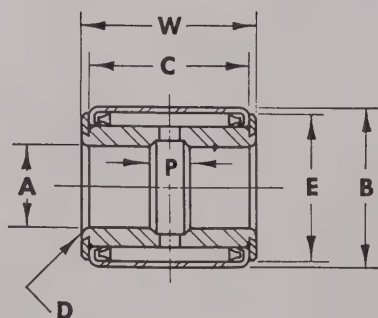
The type NBC series bearings are non-separable units consisting of inner race, outer race, rollers and washers. The end washers are securely fastened to the inner race. Lubrication grooves and holes are provided in inner and outer races for re-lubrication purposes.

When the bearing is used as a roller, the oil holes and groove in the outer race are eliminated and the O. D. is chrome plated and will be .002" max. larger. In this case, the symbols ZP and YZP in the bearing numbers will be replaced by YJ.

Bearing Number	Old Number	A BORE		B O.D.		W Overall Width +.000 -.005	C O.R. Width +.000 -.005	D Radius or 45° Bevel	E End Ring Dia.	H O.R. Groove Width	P I.R. Groove Width
		Max.	Min.	Max.	Min.						
3NBC511ZP†	AT-3	.1900	.1895	.6875	.6870	.312	.218	.022	5/16	1/16	..
4NBC612ZP†	AT-4	.2500	.2495	.7500	.7495	.375	.281	.022	11/16	5/32	..
5NBC713ZP†	AT-5	.3125	.3120	.8125	.8120	.437	.344	.022	3/4	5/32	..
6NBC914YZP	AT-6	.3750	.3745	.8750	.8745	.562	.469	.022	13/16	3/8	3/16
7NBC1015YZP	AT-7	.4375	.4370	.9375	.9370	.625	.531	.032	7/8	3/8	3/8
8NBC1218YZP	AT-8	.5000	.4995	1.1250	1.1245	.750	.656	.032	1 1/4	3/8	3/8
9NBC1419YZP	AT-9	.5625	.5618	1.1875	1.1870	.875	.781	.032	1 3/4	5/8	3/8
10NBC1620YZP	AT-10	.6250	.6243	1.2500	1.2495	1.000	.906	.032	1 5/8	5/8	1/4
12NBC1822YZP	AT-12-1	.7500	.7493	1.3750	1.3745	1.125	1.000	.032	1 7/8	5/8	1/4
14NBC2026YZP	AT-14-1	.8750	.8743	1.6250	1.6245	1.250	1.125	.032	1 3/4	5/8	3/8
16NBC2028YZP	AT-16-1	1.0000	.9993	1.7500	1.7495	1.250	1.125	.032	1 5/8	5/8	3/8
20NBC2032YZP	AT-20	1.2500	1.2493	2.0000	1.9994	1.250	1.049	.032	1 3/4	5/8	3/8
24NBC2036YZP	AT-24	1.5000	1.4993	2.2500	2.2494	1.250	1.049	.032	2 5/8	5/8	3/8
28NBC2040YZP	AT-28	1.7500	1.7493	2.5000	2.4994	1.250	1.049	.032	2 13/16	5/8	3/8
32NBC2044YZP	AT-32	2.0000	1.9993	2.7500	2.7494	1.250	1.049	.032	2 21/32	5/8	3/8
36NBC2048YZP	AT-36	2.2500	2.2493	3.0000	2.9994	1.250	1.049	.032	2 33/32	5/8	3/8
40NBC2052YZP	AT-40	2.5000	2.4993	3.2500	3.2492	1.250	1.049	.032	3 5/32	5/8	3/8
44NBC2056YZP	AT-44	2.7500	2.7493	3.5000	3.4992	1.250	1.049	.032	3 13/32	5/8	3/8
48NBC2060YZP	AT-48	3.0000	2.9993	3.7500	3.7492	1.250	1.049	.032	3 21/32	5/8	3/8
52NBC2064YZP	AT-52	3.2500	3.2492	4.0000	3.9992	1.250	1.049	.032	3 29/32	5/8	3/8
56NBC2070YZP	AT-56	3.5000	3.4992	4.3750	4.3742	1.250	1.049	.044	4 7/32	5/8	3/8
60NBC2074YZP	AT-60	3.7500	3.7492	4.6250	4.6242	1.250	1.049	.044	4 15/32	5/8	3/8
64NBC2078YZP	AT-64	4.0000	3.9992	4.8750	4.8740	1.250	1.049	.044	4 23/32	5/8	3/8



NCC series



The type NCC series bearings are non-separable units consisting of DC type needle bearing, inner race and retaining washers. The end washers are fastened to the inner race.

Lubrication grooves and holes are provided in the inner race for all bearings except the 3, 4 and 5 sizes for relubrication purposes. The DC needle bearing can be supplied with an oil hole in the outer shell, but must be specified on the order.

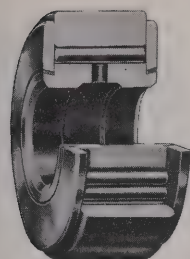
These bearings are thin outer shell type and must not be used as rollers.

Bearing Number	Old Number	A BORE		B O.D. Nominal	W Overall Width +.000 -.005	C O.R. Width +.000 -.010	D Radius or 45° Bevel	E End Ring Dia.	P I.R. Groove Width
		Max.	Min.						
3NCC1010P	AR-3	.1900	.1895	.6250	.625	.500	.022	9/16	..
4NCC910P	AR-4-1	.2500	.2495	.6250	.562	.500	.022	5/8	..
5NCC1011P	AR-5	.3125	.3120	.6875	.625	.500	.022	5/8	..
6NCC1312YP	AR-6-1	.3750	.3745	.7500	.812	.750	.022	1 1/16	3/16
7NCC1413YP	AR-7	.4375	.4370	.8125	.875	.750	.032	3/4	3/16
8NCC1416YP	AR-8	.5000	.4995	1.0000	.875	.750	.032	15/16	3/16
10NCC1418YP	AR-10	.6250	.6245	1.1250	.875	.750	.032	1 1/16	3/4
12NCC1820YP	AR-12	.7500	.7495	1.2500	1.125	1.000	.032	1 3/16	1/4
14NCC1822YP	AR-14	.8750	.8745	1.3750	1.125	1.000	.032	1 5/16	3/8
16NCC1824YP	AR-16	1.0000	.9995	1.5000	1.125	1.000	.032	1 7/16	3/8
20NCC2230YP	AR-20	1.2500	1.2495	1.8750	1.375	1.250	.032	1 3/16	3/8

†These bearings have no oil holes or groove in inner race except when used as rollers.

TORRINGTON AIRCRAFT BEARINGS

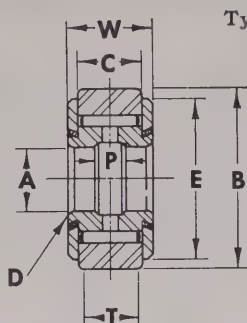
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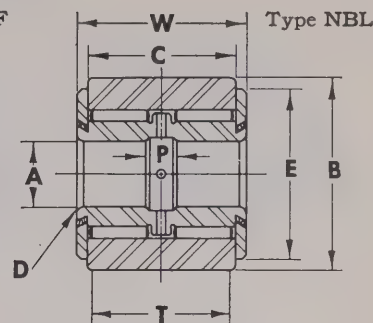
NBF series

The type NBF and NBL series bearings are non-separable units consisting of inner race, rollers, washers and extra-thick outer race to better withstand rolling loads. The end washers are fastened to the inner race.

Lubrication grooves and holes are provided for relubrication purposes in the inner race only since the outer race must serve as a roller. The O. D. of the bearing is chrome plated for corrosion protection.

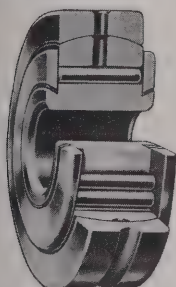


Type NBF



Type NBL

Bearing Number	Old Number	A BORE		B O.D. + .000 - .001	W Overall Width + .000 - .005	C O.R. Width + .000 - .005	D Radius or 45° Bevel	E End Ring Dia.	P I.R. Groove Width	T Track Contact Width
		Max.	Min.							
3NBF512YJ	FT-3	.1900	.1895	.7500	.312	.218	.022	1 1/16	5/32	1/8
4NBF614YJ	FT-4	.2500	.2495	.8750	.375	.281	.022	1 1/8	3/16	1/4
6NBF817YJ	FT-6	.3750	.3745	1.0625	.500	.375	.022	1 5/8	1/4	3/8
8NBF1021YJ	FT-8	.5000	.4995	1.3125	.625	.500	.032	1 3/4	3/8	7/16
10NBF1224YJ	FT-10	.6250	.6243	1.5000	.750	.625	.032	1 7/8	1/2	9/16
12NBF1628YJ	FT-12	.7500	.7493	1.7500	1.000	.875	.032	1 3/4	1/2	3/4
14NBF1832YJ	FT-14	.8750	.8743	2.0000	1.125	1.000	.032	1 7/8	1/2	7/8
20NBF2040YJ	FT-20	1.2500	1.2493	2.5000	1.250	1.049	.032	1 19/32	5/8	1 1/8
6NBL1618YJ	FDT-6	.3750	.3745	1.1250	1.000	.875	.022	1	3/8	3/4
8NBL2022YJ	FDT-8	.5000	.4995	1.3750	1.250	1.125	.032	1 1/4	1/2	1
10NBL2426YJ	FDT-10	.6250	.6243	1.6250	1.500	1.375	.032	1 1/2	5/8	1 1/4
12NBL2830YJ	FDT-12	.7500	.7493	1.8750	1.750	1.625	.032	1 3/4	5/8	1 3/8
14NBL3234YJ	FDT-14	.8750	.8743	2.1250	2.000	1.875	.032	2	5/8	1 5/8

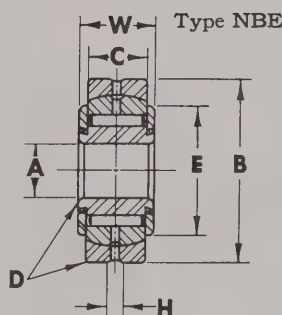


NBE series

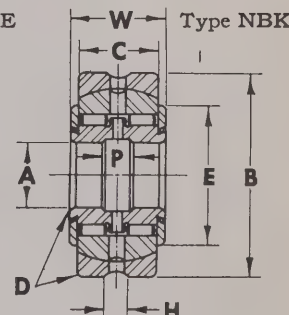
The type NBE and NBK series bearings are non-separable, self-aligning units consisting of inner race, rollers, self-aligning outer races and retaining washers. The end washers are fastened to the inner race.

Lubrication grooves and holes are provided in the inner races, outer races and self-aligning rings for relubrication purposes in all bearings except the type NBE, in which grooves and holes in the inner race are omitted.

The bearing outer race and self-aligning ring are a matched assembly and must be kept together.



Type NBE



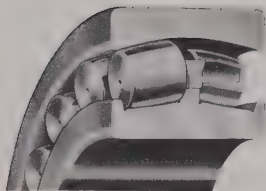
Type NBK

Bearing Number	Old Number	A BORE		B O.D.		W Overall Width + .000 - .005	C O.R. Width + .000 - .005	D Radius or 45° Bevel	E End Ring Dia.	H O.R. Groove Width	P I.R. Groove Width
		Max.	Min.	Max.	Min.						
3NBE514ZP†	AT-3SA	.1900	.1895	.8750	.8745	.312	.218	.022	5/8	1/16	..
4NBE615ZP†	AT-4SA	.2500	.2495	.9375	.9370	.375	.281	.022	1 1/16	5/32	..
5NBE717ZP†	AT-5SA	.3125	.3120	1.0625	1.0620	.437	.344	.022	3/4	5/32	..
6NBK919YZP	AT-6SDA	.3750	.3745	1.1875	1.1870	.562	.469	.022	1 3/16	1/8	5/16
7NBK1021YZP	AT-7SDA	.4375	.4370	1.3125	1.3120	.625	.531	.032	7/8	1/8	3/8
8NBK1224YZP	AT-8SDA	.5000	.4995	1.5000	1.4995	.750	.656	.032	1 1/2	1/8	3/8
9NBK1427YZP	AT-9SDA	.5625	.5618	1.6875	1.6870	.875	.781	.032	1 5/8	5/32	5/16
10NBK1628YZP	AT-10SDA	.6250	.6243	1.7500	1.7495	1.000	.906	.032	1 3/4	5/32	1/4
12NBK1830YZP	AT-12SDA	.7500	.7493	1.8750	1.8745	1.125	1.000	.032	1 7/8	5/32	3/4
14NBK2034YZP	AT-14SDA	.8750	.8743	2.1250	2.1244	1.250	1.125	.032	1 3/4	5/32	3/8
16NBK2036YZP	AT-16SDA	1.0000	.9993	2.2500	2.2494	1.250	1.125	.032	1 3/8	5/32	3/8
20NBK2040YZP	AT-20SDA	1.2500	1.2493	2.5000	2.4994	1.250	1.049	.032	1 29/32	5/32	3/8
24NBK2044YZP	AT-24SDA	1.5000	1.4993	2.7500	2.7494	1.250	1.049	.032	2 1/32	5/32	3/8
32NBK2052YZP	AT-32SDA	2.0000	1.9993	3.2500	3.2492	1.250	1.049	.032	2 1/2	5/32	3/8
40NBK2060YZP	AT-40SDA	2.5000	2.4993	3.7500	3.7492	1.250	1.049	.032	3 1/32	5/32	3/8
48NBK2068YZP	AT-48SDA	3.0000	2.9993	4.2500	4.2492	1.250	1.049	.032	3 1/2	5/32	3/8
56NBK2078YZP	AT-56SDA	3.5000	3.4992	4.8750	4.8740	1.250	1.049	.044	4 1/2	5/32	3/8

†These bearings have no oil holes or grooves in inner race.

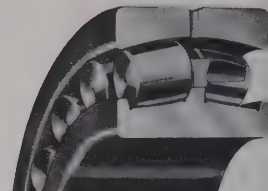
NEED HELP ON BEARINGS—CALL US

TORRINGTON SELF-ALIGNING SPHERICAL ROLLER BEARINGS



The Torrington Self-Aligning Spherical Roller bearing is a combination radial and thrust bearing designed for taking misalignment under load. When loads are heavy, alignment of housings difficult, and shaft deflections are excessive, the use of spherical roller bearings assures best service life results.

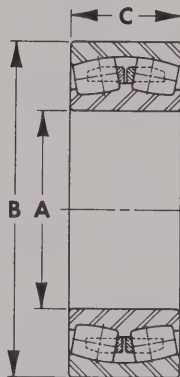
Bearings with selected outside diameter are available. Add suffix W22 to the bearing number. Some sizes are available with Lubrication Groove and Oil Holes (W33 feature). Consult us for availability.



Torrington spherical roller bearing with W33 feature

W22 Selected Outside Diameter Bearings

Bearings with selected outside diameters are required in some applications. Torrington spherical roller bearings are available with the outside diameter held to a tolerance of $\pm .0002$ " from the mean outside diameter. This allows precision fits to be maintained between the bearing and housing. To obtain the accuracy desired, the housing is usually ground or honed. To specify this feature, add the suffix "W22" to the bearing number. Example: 80SD22 W 22.



Available with Tapered Bore —1" per foot. Add Suffix "K" to regular number.

W33 Lubrication Groove and Oil Holes

A lubrication groove and three oil holes are provided in the bearing outer ring. This eliminates the expense of machining a channel in the housing bore for introducing lubricant to the bearing. This design feature allows the lubricant to flow between the roller paths, through a single lubrication fitting. The lubricant moves laterally outward from the center of the bearing, reaching all contact surfaces and "flushing" the bearing.

To order, add the suffix "W 33" to the bearing number. Example: 80SD22 W 33.

SERIES 22

Bearing Number	Old Number	Bore A		O. D. B		Width C	
		Mm	Inches	Mm	Inches	Mm	Inches
40SD22	T-22208	40	1.5748	80	3.1496	23	.9055
45SD22	T-22209	45	1.7717	85	3.3465	23	.9055
50SD22	T-22210	50	1.9685	90	3.5433	23	.9055
55SD22	T-22211	55	2.1654	100	3.9370	25	.9843
60SD22	T-22212	60	2.3622	110	4.3307	28	1.1024
†65SD22	T-22213	65	2.5591	120	4.7244	31	1.2205
70SD22	T-22214	70	2.7559	125	4.9213	31	1.2205
75SD22	T-22215	75	2.9528	130	5.1181	31	1.2205
80SD22	T-22216	80	3.1496	140	5.5118	33	1.2992
85SD22	T-22217	85	3.3465	150	5.9055	36	1.4173
90SD22	T-22218	90	3.5433	160	6.2992	40	1.5748
95SD22	T-22219	95	3.7402	170	6.6929	43	1.6929
100SD22	T-22220	100	3.9370	180	7.0866	46	1.8110
110SD22	T-22222	110	4.3307	200	7.8740	53	2.0866
120SD22	T-22224	120	4.7244	215	8.4646	58	2.2835
130SD22	T-22226	130	5.1181	230	9.0551	64	2.5197
140SD22	T-22228	140	5.5118	250	9.8425	68	2.6772
150SD22	T-22230	150	5.9055	270	10.6299	73	2.8740
160SD22	T-22232	160	6.2992	290	11.4173	80	3.1496
170SD22	T-22234	170	6.6929	310	12.2047	86	3.3858
180SD22	T-22236	180	7.0866	320	12.5984	86	3.3858
190SD22	T-22238	190	7.4803	340	13.3858	92	3.6220
200SD22	T-22240	200	7.8740	360	14.1732	98	3.8583
220SD22	T-22244	220	8.6614	400	15.7480	108	4.2520
240SD22	T-22248	240	9.4488	440	17.3228	120	4.7244
260SD22	T-22252	260	10.2362	480	18.8976	130	5.1181
280SD22	T-22256	280	11.0236	500	19.6850	130	5.1181
300SD22	T-22260	300	11.8110	540	21.2598	140	5.5118
320SD22	T-22264	320	12.5984	580	22.8346	150	5.9055

†Check for availability

SERIES 23

Bearing Number	Old Number	Bore A		O. D. B		Width C	
		Mm	Inches	Mm	Inches	Mm	Inches
40SD23	T-22308	40	1.5748	90	3.5433	33	1.2992
45SD23	T-22309	45	1.7717	100	3.9370	36	1.4173
50SD23	T-22310	50	1.9685	110	4.3307	40	1.5748
55SD23	T-22311	55	2.1654	120	4.7244	43	1.6929
60SD23	T-22312	60	2.3622	130	5.1181	46	1.8110
65SD23	T-22313	65	2.5591	140	5.5118	48	1.8898
70SD23	T-22314	70	2.7559	150	5.9055	51	2.0079
75SD23	T-22315	75	2.9528	160	6.2992	55	2.1654
80SD23	T-22316	80	3.1496	170	6.6929	58	2.2835
85SD23	T-22317	85	3.3465	180	7.0866	60	2.3622
90SD23	T-22318	90	3.5433	190	7.4803	64	2.5197
95SD23	T-22319	95	3.7402	200	7.8740	67	2.6378
100SD23	T-22320	100	3.9370	215	8.4646	73	2.8740
110SD23	T-22322	110	4.3307	240	9.4488	80	3.1496
120SD23	T-22324	120	4.7244	260	10.2362	86	3.3858
130SD23	T-22326	130	5.1181	280	11.0236	93	3.6614
140SD23	T-22328	140	5.5118	300	11.8110	102	4.0157
150SD23	T-22330	150	5.9055	320	12.5984	108	4.2520
160SD23	T-22332	160	6.2992	340	13.3858	114	4.4882
170SD23	T-22334	170	6.6929	360	14.1732	120	4.7244
180SD23	T-22336	180	7.0866	380	14.9606	126	4.9606
190SD23	T-22338	190	7.4803	400	15.7480	132	5.1968
200SD23	T-22340	200	7.8740	420	16.5354	138	5.4331
220SD23	T-22344-X	220	8.6614	460	18.1102	145	5.7087
240SD23	T-22348-X	240	9.4488	500	19.6850	155	6.1024
260SD23	T-22352-X	260	10.2362	540	21.2598	165	6.4961
280SD23	T-22356-X	280	11.0236	580	22.8346	175	6.8898

TORRINGTON SELF-ALIGNING SPHERICAL ROLLER BEARINGS

Available with Tapered Bore—1" per
foot. Add Suffix "K" to regular number.

SERIES 30

Bearing Number	Reference Number	A Bore		B Outside Diam.		C Width	
		Mm	Inches	Mm	Inches	Mm	Inches
120SD30	23024	120	4.7244	180	7.0866	46	1.8110
130SD30	23026	130	5.1181	200	7.8740	52	2.0472
140SD30	23028	140	5.5118	210	8.2677	53	2.0866
150SD30	23030	150	5.9055	225	8.8583	56	2.2047
160SD30	23032	160	6.2992	240	9.4488	60	2.3622
170SD30	23034	170	6.6929	260	10.2362	67	2.6378
180SD30	23036	180	7.0866	280	11.0236	74	2.9134
190SD30	23038	190	7.4803	290	11.4173	75	2.9528
200SD30	23040	200	7.8740	310	12.2047	82	3.2283
220SD30	23044	220	8.6614	340	13.3858	90	3.5433
240SD30	23048	240	9.4488	360	14.1732	92	3.6220
260SD30	23052	260	10.2362	400	15.7480	104	4.0945
280SD30	23056	280	11.0236	420	16.5354	106	4.1732
300SD30	23060	300	11.8110	460	18.1102	118	4.6457
320SD30	23064	320	12.5984	480	18.8976	121	4.7638
340SD30	23068	340	13.3858	520	20.4724	133	5.2362
360SD30	23072	360	14.1732	540	21.2598	134	5.2756
380SD30	23076	380	14.9606	560	22.0472	135	5.1350
400SD30	23080	400	15.7480	600	23.6220	148	5.8268
420SD30	23084	420	16.5354	620	24.4094	150	5.9055
440SD30	23088	440	17.3228	650	25.5906	157	6.1811
460SD30	23092	460	18.1102	680	26.7717	163	6.4173
480SD30	23096	480	18.8976	700	27.5591	165	6.4961
500SD30	230/500	500	19.6850	720	28.3465	167	6.5748
530SD30	230/530	530	20.8661	780	30.7087	185	7.2835
560SD30	230/560	560	22.0472	820	32.2835	195	7.6772
600SD30	230/600	600	23.6220	870	34.2520	200	7.8740
630SD30	230/630	630	24.8031	920	36.2205	212	8.3465
670SD30	230/670	670	26.3780	980	38.5827	230	9.0551
710SD30	230/710	710	27.9528	1030	40.5512	236	9.2913
750SD30	230/750	750	29.5276	1090	42.9134	250	9.8425
800SD30	230/800	800	31.4961	1150	45.2756	258	10.1575
850SD30	230/850	850	33.4646	1220	48.0315	272	10.7087
900SD30	230/900	900	35.4331	1280	50.3937	280	11.0236
950SD30	230/950	950	37.4016	1360	53.5433	300	11.8110
1000SD30	230/1000	1000	39.3700	1420	55.9055	308	12.1260
1060SD30	230/1060	1060	41.7323	1500	59.0551	325	12.7953

SERIES 31

Bearing Number	Reference Number	A Bore		B Outside Diam.		C Width	
		Mm	Inches	Mm	Inches	Mm	Inches
110SD31	23122	110	4.3307	180	7.0866	56	2.2047
120SD31	23124	120	4.7244	200	7.8740	62	2.4409
130SD31	23126	130	5.1181	210	8.2677	64	2.5197
140SD31	23128	140	5.5118	225	8.8583	68	2.6772
150SD31	23130	150	5.9055	250	9.8425	80	3.1496
160SD31	23132	160	6.2992	270	10.6299	86	3.3858
170SD31	23134	170	6.6929	280	11.0236	88	3.4646
180SD31	23136	180	7.0866	300	11.8110	96	3.7795
190SD31	23138	190	7.4803	320	12.5984	104	4.0945
200SC31	23140	200	7.8740	340	13.3858	112	4.4094
220SD31	23144	220	8.6614	370	14.5669	120	4.7244
240SD31	23148	240	9.4488	400	15.7480	128	5.0394
260SD31	23152	260	10.2362	440	17.3228	144	5.6693
280SD31	23156	280	11.0236	460	18.1102	146	5.7480
300SD31	23160	300	11.8110	500	19.6850	160	6.2992
320SD31	23164	320	12.5984	540	21.2598	176	6.9291
340SD31	23168	340	13.3858	580	22.8346	190	7.4803
360SD31	23172	360	14.1732	600	23.6220	192	7.5591
380SD31	23176	380	14.9606	620	24.4094	194	7.6378
400SD31	23180	400	15.7480	650	25.5906	200	7.8740
420SD31	23184	420	16.5354	700	27.5591	224	8.8189
440SD31	23188	440	17.3228	720	28.3465	226	8.8976
460SD31	23192	460	18.1102	760	29.9213	240	9.4488
480SD31	23196	480	18.8976	790	31.1024	248	9.7638
500SD31	231/500	500	19.6850	830	32.6772	264	10.3937
530SD31	231/530	530	20.8661	870	34.2520	272	10.7087
560SD31	231/560	560	22.0472	920	36.2205	280	11.0236
600SD31	231/600	600	23.6220	980	38.5827	300	11.8110
630SD31	231/630	630	24.8031	1030	40.5512	315	12.4016
670SD31	231/670	670	26.3780	1090	42.9134	336	13.2283
710SD31	231/710	710	27.9528	1150	45.2756	345	13.5827
750SD31	231/750	750	29.5276	1220	48.0315	365	14.3701
800SD31	231/800	800	31.4961	1280	50.3937	375	14.7638
850SD31	231/850	850	33.4646	1360	53.5433	400	15.7480
900SD31	231/900	900	35.4331	1420	55.9055	412	16.2205
950SD31	231/950	950	37.4016	1500	59.0551	438	17.2441

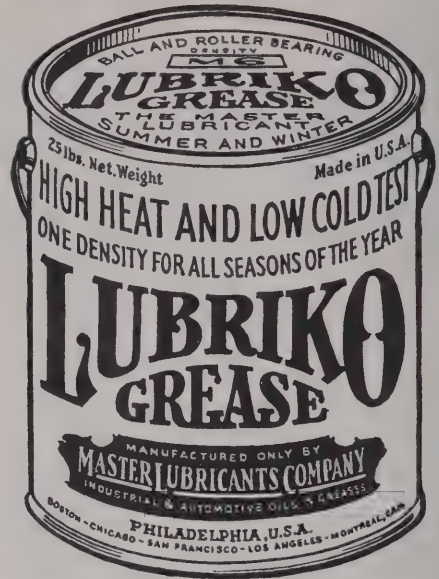
SERIES 32

Bearing Number	Reference Number	A Bore		B Outside Diam.		C Width	
		Mm	Inches	Mm	Inches	Mm	Inches
100SD32	23220	100	3.9370	180	7.0866	60.3	2.3750
110SD32	23222	110	4.3307	200	7.8740	69.8	2.7500
120SD32	23224	120	4.7244	215	8.4646	76	2.9921
130SD32	23226	130	5.1181	230	9.0551	80	3.1496
140SD32	23228	140	5.5118	250	9.8425	88	3.4646
150SD32	23230	150	5.9055	270	10.6299	96	3.7795
160SD32	23232	160	6.2992	290	11.4173	104	4.0945
170SD32	23234	170	6.6929	310	12.2047	110	4.3307
180SD32	23236	180	7.0866	320	12.5984	112	4.4094
190SD32	23238	190	7.4803	340	13.3858	120	4.7244
200SD32	23240	200	7.8740	360	14.1732	128	5.0394
220SD32	23244	220	8.6614	400	15.7480	144	5.6693
240SD32	23248	240	9.4488	440	17.3228	160	6.2992
260SD32	23252	260	10.2362	480	18.8976	174	6.8504
280SD32	23256	280	11.0236	500	19.6850	176	6.9291
300SD32	23260	300	11.8110	540	21.2598	192	7.5591
320SD32	23264	320	12.5984	580	22.8346	208	8.1890
340SD32	23268	340	13.3858	620	24.4094	224	8.8189

SERIES 32 (cont.)

Bearing Number	Reference Number	A Bore		B Outside Diam.		C Width	
		Mm	Inches	Mm	Inches	Mm	Inches
360SD32	23272	360	14.1732	650	25.5906	232	9.1339
380SD32	23276	380	14.9606	680	26.7717	240	9.4488
400SD32	23280	400	15.7480	720	28.3465	256	10.0787
420SD32	23284	420	16.5354	760	29.9213	272	10.7087
440SD32	23288	440	17.3228	790	31.1024	280	11.0236
460SD32	23292	460	18.1102	830	32.6772	296	11.6535
480SD32	23296	480	18.8976	870	34.2520	310	12.2047
500SD32	232/500	500	19.6850	920	36.2205	336	13.2283
530SD32	232/530	530	20.8661	980	38.5827	355	13.9764
560SD32	232/560	560	22.0472	1030	40.5512	365	14.3701
600SD32	232/600	600	23.6220	1090	42.9134	388	15.2756
630SD32	232/630	630	24.8031	1150	45.2756	412	16.2205
670SD32	232/670	670	26.3780	1220	48.0315	438	17.2441
710SD32	232/710	710	27.9528	1280	50.3937	450	17.7165
750SD32	232/750	750	29.5276	1360	53.5433	475	18.7008
800SD32	232/800	800	31.4961	1420	55.9055	488	19.2126
850SD32	232/850	850	33.4646	1500	59.0551	515	20.2756

LUBRIKO GREASES



**Made Exclusively For
MAINTENANCE AND NEEDS OF**

BALL and ROLLER BEARINGS

It Lubricates Better Because—

it is pure, free of non-lubricating fillers, moisture, acids, coloring, deodorants—highly filtered and packaged in air conditioned rooms to safeguard its purity.

LUBRIKO GREASES are non-gumming. Will not corrode polished steel surfaces.

It Protects Bearings From Wear Because—

it has a low coefficient of friction, low starting and running torque, wide temperature range operating characteristics—from sub-zero to more than 300° F.

LUBRIKO GREASES have unusual film strength. Hold their consistency even under severe operating conditions.

It Has a Performance Record Because—

it makes bearings run smoother, longer, cooler with less maintenance. That is why it is so widely endorsed by manufacturers of ball and roller bearings, electric motors and designers of modern high speed machinery.

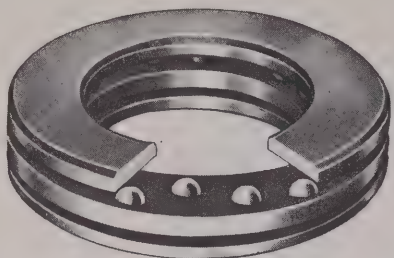
See Page 330 for Densities

**Ball and roller bearings are a valuable investment.
Protect them with the finest bearing grease available.**

NEED HELP ON BEARINGS—CALL US

THRUST BEARING SECTION

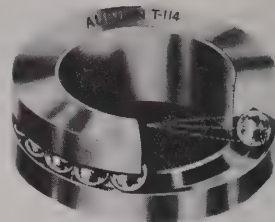
	Page		Page
AUBURN THRUST BEARINGS		OBB ROLLER THRUST BEARINGS	
T-100 Series, Outside Band Type	169	Type E—Light Series	179
T-101 Series, Open Type	169	Type E—Heavy Series	179
T-114 Series, Inside Band Type	169		
T-114-RG Series, Self Contained Type	169	ROLLWAY ROLLER THRUST BEARINGS	
T-200-RG Series, Enclosed Type	169	T Series, Single Direction Type	180
		AT Series, with Aligning Washer	180
FAFNIR THRUST BEARINGS		CT and WCT Series, for Crane Hooks	181
N800, N900 Series, Self-Aligning Type	170		
1500 Series, Metric	170	SKF THRUST BEARINGS	
N1800 Series, Metric	170	29300 Series, Spherical Roller Thrust	182
		29400 Series, Spherical Roller Thrust	182
MRC THRUST BEARINGS		51100 Series, Flat Seat Type	183
2900 Series, Metric	171	2900 Series	183
C and B Series, Inch Type	171	900 Series	183
1100-F Series, Rigid, Metric Type	172	700 Series, Self-Aligning Type	184
1100 and 1100-U Series, Self-Aligning	172		
NORMA-HOFFMANN THRUST BEARINGS		TORRINGTON THRUST BEARINGS	
W Series, Inch Type	173	Needle Roller Thrust Bearings	184
DL and DM Series, Metric Type	173		
OBB BALL THRUST BEARINGS		TIMKEN ROLLER THRUST BEARINGS	
Flat Raceway Type	174	Type TTC and TTCS Series, Cageless	185
Grooved Raceway Type	174	Type TTSP, Steering Pivot	186
Banded Type	174	Type TTHD, Heavy Duty	186
UT Series, Unground, Banded	178		
FW Series, Steel Thrust Washers	178		
W Series, Steel Thrust Washers	178		

THRUST BEARINGS**PICTORIAL INDEX**

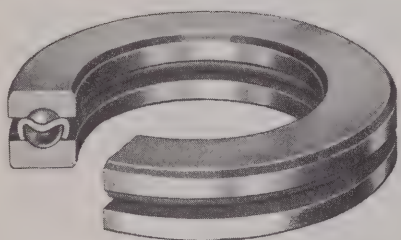
OBB Flat Type



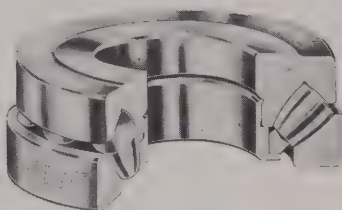
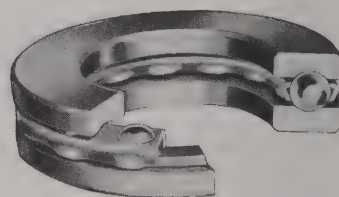
Auburn T-114-RG Series



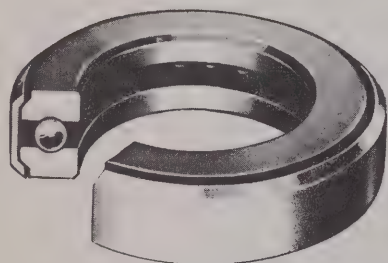
Auburn T-114 Series



OBB Grooved Type

SKF Spherical Roller
Thrust Bearings

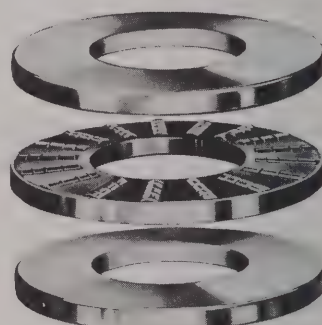
MRC Thrust Bearings



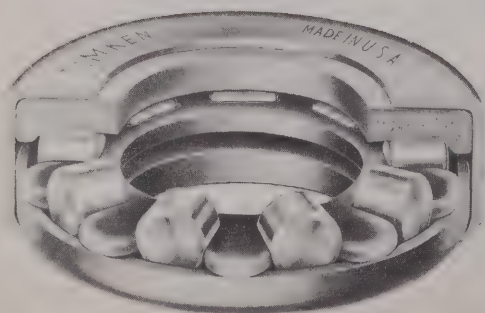
OBB Banded Type



Fafnir Thrust Bearings



Rollway Roller Thrust Bearings



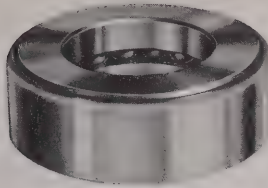
Timken Roller Thrust Bearings



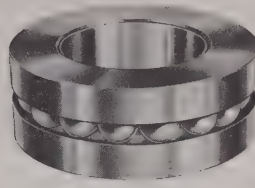
Norma-Hoffmann Thrust Bearings

NEED HELP ON BEARINGS—CALL US

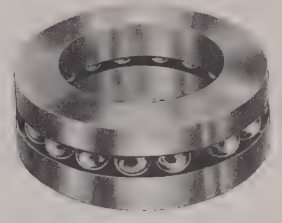
AUBURN THRUST BEARINGS



"AUBURN GROOVE"
Outside Band Type



"AUBURN GROOVE"
Inside Band Type



"AUBURN GROOVE"
Open Type

T-100 Series

Brg. No.	Bore	Outside Dia.	Width
00	$\frac{5}{16}$	$\frac{11}{16}$	$\frac{5}{16}$
0	$\frac{3}{8}$	$\frac{3}{4}$	$\frac{5}{16}$
$\frac{3}{8}$	$\frac{3}{8}$	$\frac{13}{16}$	$\frac{1}{2}$
$\frac{1}{2}$	$\frac{1}{2}$	$\frac{13}{16}$	$\frac{3}{8}$
1	$\frac{1}{2}$	$\frac{13}{16}$	$\frac{5}{8}$
2	$\frac{5}{8}$	$\frac{13}{16}$	$\frac{5}{8}$
3	$\frac{3}{4}$	$\frac{11}{2}$	$\frac{11}{16}$
4	$\frac{7}{8}$	$\frac{13}{16}$	$\frac{11}{16}$
5	$\frac{15}{16}$	2	$\frac{13}{16}$
6	$\frac{15}{16}$	2	$\frac{11}{16}$
7	1	2	$\frac{13}{16}$
8	1	2	$\frac{11}{16}$
9	$\frac{1}{16}$	2	$\frac{11}{16}$
10	$\frac{1}{16}$	$\frac{23}{16}$	$\frac{13}{16}$
11	$\frac{1}{8}$	$\frac{23}{16}$	$\frac{15}{16}$
12	$\frac{13}{16}$	$\frac{23}{16}$	$\frac{11}{16}$
13	$\frac{1}{4}$	$\frac{23}{16}$	$\frac{11}{16}$
15	$\frac{1}{4}$	$\frac{213}{32}$	$\frac{15}{16}$
17A	$\frac{13}{8}$	$\frac{213}{32}$	$\frac{11}{16}$
19	$\frac{17}{16}$	$\frac{21}{2}$	$\frac{15}{16}$
20	$\frac{17}{16}$	$\frac{219}{32}$	$\frac{15}{16}$

T-100 Series (continued)

Brg. No.	Bore	Outside Dia.	Width
21	$\frac{1}{2}$	$\frac{219}{32}$	$\frac{11}{16}$
22	$\frac{1}{2}$	$\frac{219}{32}$	$\frac{15}{16}$
23	$\frac{15}{8}$	$\frac{219}{32}$	$\frac{11}{16}$
24	$\frac{11}{16}$	$\frac{219}{32}$	$\frac{11}{16}$
25	$\frac{13}{16}$	$\frac{23}{4}$	$\frac{11}{16}$
26	$\frac{11}{16}$	$\frac{23}{4}$	$\frac{13}{16}$
28	$\frac{19}{16}$	$\frac{23}{4}$	1
29	$\frac{15}{8}$	3	$\frac{13}{16}$
30	$\frac{15}{16}$	3	$\frac{13}{16}$
31	2	3	$\frac{13}{16}$
33	$\frac{23}{16}$	$\frac{33}{16}$	$\frac{13}{16}$
34	$\frac{13}{4}$	$\frac{33}{16}$	$\frac{11}{8}$
36	$\frac{25}{16}$	$\frac{31}{4}$	$\frac{13}{16}$
37	$\frac{115}{16}$	$\frac{31}{4}$	$\frac{13}{16}$
38	2	$\frac{31}{4}$	$\frac{13}{16}$
39	$\frac{23}{16}$	$\frac{37}{8}$	$\frac{11}{4}$
41	$\frac{27}{16}$	4	$\frac{11}{4}$
42	$\frac{21}{2}$	4	$\frac{11}{4}$
47	$\frac{37}{16}$	5	1
54	5	7	$\frac{11}{4}$
56	$\frac{61}{2}$	$\frac{83}{4}$	$\frac{11}{2}$

T-114 Series

Brg. No.	Bore	Outside Dia.	Width
2	$\frac{15}{16}$	$\frac{27}{16}$	1
6	$\frac{115}{16}$	$\frac{33}{4}$	$\frac{11}{4}$
7	$\frac{23}{16}$	4	$\frac{11}{2}$
8	$\frac{27}{16}$	$\frac{41}{2}$	$\frac{15}{8}$

MEDIUM TYPE

Brg. No.	Bore	Outside Dia.	Width
26	$\frac{5}{8}$	$\frac{17}{16}$	$\frac{11}{16}$
31	$\frac{15}{16}$	$\frac{21}{8}$	$\frac{3}{4}$
38	$\frac{11}{2}$	$\frac{215}{16}$	$\frac{13}{16}$
42	$\frac{23}{16}$	$\frac{31}{4}$	$\frac{11}{8}$
43	$\frac{23}{16}$	$\frac{33}{4}$	$\frac{11}{4}$
44	$\frac{25}{16}$	$\frac{315}{16}$	$\frac{11}{4}$

T-101 Series Light

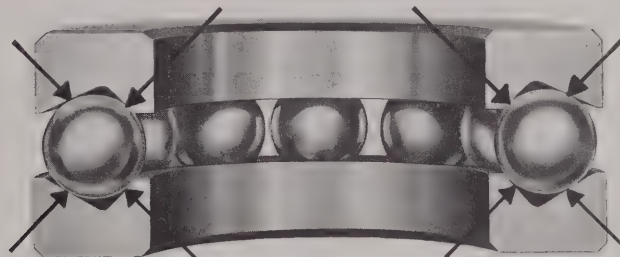
Brg. No.	Bore	Outside Dia.	Width
1	$\frac{1}{2}$	$\frac{11}{8}$	$\frac{5}{8}$
2	$\frac{5}{8}$	$\frac{15}{16}$	$\frac{5}{8}$
3	$\frac{3}{4}$	$\frac{17}{16}$	$\frac{11}{16}$
4	$\frac{7}{8}$	$\frac{11}{2}$	$\frac{11}{16}$
5	$\frac{7}{8}$	$\frac{13}{4}$	$\frac{11}{16}$
6	$\frac{15}{16}$	$\frac{115}{16}$	$\frac{13}{16}$
7	1	$\frac{115}{16}$	$\frac{13}{16}$
10	$\frac{11}{8}$	$\frac{21}{8}$	$\frac{13}{16}$
11	$\frac{11}{4}$	$\frac{211}{32}$	$\frac{15}{16}$
13	$\frac{17}{16}$	$\frac{27}{16}$	$\frac{15}{16}$
32	$\frac{21}{2}$	$\frac{31}{2}$	$\frac{11}{4}$

HEAVY TYPE

Brg. No.	Bore	Outside Dia.	Width
51	$\frac{113}{16}$	$\frac{33}{16}$	$\frac{11}{8}$
53	$\frac{27}{16}$	$\frac{315}{16}$	$\frac{11}{2}$
57	$\frac{37}{16}$	$\frac{51}{2}$	$\frac{13}{4}$
62	$\frac{411}{16}$	$\frac{71}{4}$	$\frac{23}{8}$
63	$\frac{415}{16}$	$\frac{71}{2}$	$\frac{23}{8}$
67	$\frac{515}{16}$	$\frac{91}{4}$	3

THE "AUBURN GROOVE" PRINCIPLE

- Less friction
- Cooler running
- Longer life
- Ball retainer not required
- Full complement of balls
- Greater load carrying ability



Load distributed
evenly over
the balls

Four points of
contact between
balls and raceway

Bearing No.	O.D.	Width
0010	$\frac{5}{8}$	$\frac{7}{16}$
0011	$\frac{11}{16}$	$\frac{1}{2}$
0012	$\frac{3}{4}$	$\frac{9}{16}$
0013	$\frac{13}{16}$	$\frac{5}{8}$
0014	$\frac{7}{8}$	$\frac{11}{16}$
0015	$\frac{15}{16}$	$\frac{3}{4}$
1000	1	$\frac{3}{4}$
1001	$\frac{11}{16}$	$\frac{7}{8}$
1002	$\frac{11}{8}$	$\frac{7}{8}$
1003	$\frac{13}{16}$	$\frac{15}{16}$
1007	$\frac{17}{16}$	$\frac{13}{16}$
1011	$\frac{111}{16}$	$\frac{11}{4}$
1015	$\frac{115}{16}$	$\frac{15}{16}$
2003	$\frac{23}{16}$	$\frac{111}{16}$
2007	$\frac{27}{16}$	$\frac{11}{8}$
2012	$\frac{23}{4}$	$\frac{21}{4}$
2015	$\frac{215}{16}$	$\frac{21}{2}$

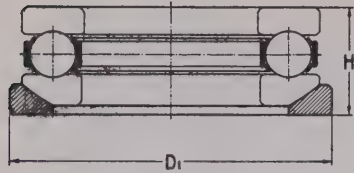


Brg. No.	Bore	Outside Dia.	Width
DD-2	$\frac{1}{2}$	4	1
DD-3	2	$\frac{47}{8}$	$\frac{11}{8}$
DD-7	4	$\frac{83}{4}$	$\frac{15}{8}$
DD-8	$\frac{41}{2}$	$\frac{91}{2}$	$\frac{13}{4}$
DD-9	5	$\frac{101}{4}$	$\frac{17}{8}$
DD-10	$\frac{51}{2}$	$\frac{111}{4}$	$\frac{21}{4}$
DD-11	6	$\frac{121}{2}$	$\frac{21}{2}$
DD-12	$\frac{61}{2}$	$\frac{133}{4}$	$\frac{25}{4}$

T-200-RG Series

Auburn Enclosed Style T-200-RG Ball Thrust Bearing is recommended for use where maximum carrying capacity is desired but thickness space is limited.

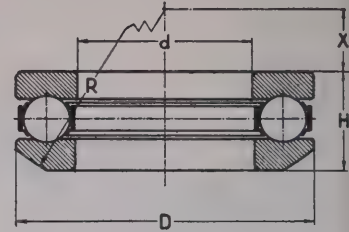
Consult for availability
before incorporating in
new designs.

FAFNIR BALL THRUST BEARINGS**RIGID AND
SELF-ALIGNING
TYPES****N900 SERIES**

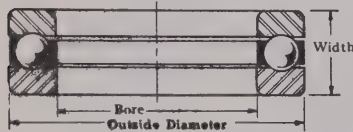
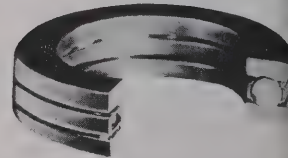
These bearings are manufactured in the flat washer or Rigid Type and the convex washer or Self-Aligning Type, the latter with or without the separate aligning seat. The self-aligning design is generally preferable, since it assures uniform distribution of the load over all the balls. Vertical shafts carrying heavy thrusts, drill presses, slow speed worm drives, and similar units are the logical field of application for the purely thrust type bearing.

The N800 Series consists of ball retainer and two washers. The bottom washer has a convex, spherical seat.

The N900 Series consists of an N800 Bearing with an aligning concave washer added.

**N800 SERIES****METRIC — SELF ALIGNING TYPE**

Brg. No.	(With Seat)	BORE		DIA. D		OUTSIDE DIA. D ₁		WIDTH (H)		WIDTH H ₁	
		Mm	Inches	Mm	Inches	Mm	Inches	Mm	Inches	Mm	Inches
N800	N900										
*N802	*N902	10	0.3937	25	0.9843	35	1.3780	14	0.5512	15	0.5906
N803	N903	15	0.5906	35	1.3780	38	1.4961	15	0.5906	17	0.6693
N804	N904	20	0.7874	40	1.5748	45	1.7717	16	0.6299	18	0.7087
N805	N905	25	0.9843	48	1.8898	50	1.9685	17	0.6693	19	0.7480
N806	N906	30	1.1811	53	2.0866	59	2.3228	18	0.7087	20	0.7874
N807	N907	35	1.3780	62	2.4409	67	2.6378	21	0.8268	23	0.9055
N808	N908	40	1.5748	64	2.5197	69	2.7165	21	0.8268	23	0.9055
N809	N909	45	1.7717	73	2.8740	78	3.0709	25	0.9843	27	1.0630
N810	N910	50	1.9685	78	3.0709	83	3.2677	25	0.9843	27	1.0630
N811	N911	55	2.1654	88	3.4646	94	3.7008	28	1.1024	30	1.1811
N812	N912	60	2.3622	90	3.5433	96	3.7795	28	1.1024	30	1.1811
N813	N913	65	2.5591	100	3.9370	105	4.1339	32	1.2598	34	1.3386
N814	N914	70	2.7559	103	4.0551	109	4.2914	32	1.2598	34	1.3386
N815	N915	75	2.9528	110	4.3307	114	4.4882	32	1.2598	34	1.3386
N816	N916	80	3.1496	115	4.5276	124	4.8819	35	1.3780	37	1.4567
N817	N917	85	3.3465	125	4.9213	138	5.4331	38	1.4961	40	1.5748
N818	N918	90	3.5433	135	5.3150	141	5.5512	38	1.4961	40	1.5748
N819	N919	95	3.7402	140	5.5118	151	5.9449	41	1.6142	43.5	1.7126
N820	N920	100	3.9370	150	5.9055	156	6.1417	41	1.6142	44	1.7323
N821	N921	105	4.1339	155	6.1024	163	6.4173	46	1.8110	49	1.9291
*N822	*N922	110	4.3307	160	6.2992	170	6.6929	46	1.8110	49	1.9291
N823	N923	115	4.5276	165	6.4961	173	6.8110	49	1.9291	52	2.0472
*N824	*N924	120	4.7244	170	6.6929	180	7.0866	49	1.9291	52	2.0472
N825	N925	125	4.9213	175	6.8898	186	7.3228	53	2.0866	56	2.2047
N826	N926	130	5.1181	180	7.0866	190	7.4803	53	2.0866	56	2.2047
N828	N928	140	5.5118	200	7.8740	212	8.3464	60	2.3622	62	2.4409

**Rigid Metric Types****With Grooved Races and Flat Seats****1500 — LIGHT SERIES**

Bearing No.	BORE		OUTSIDE DIA.		WIDTH	
	Mm	Inches	Mm	Inches	Mm	Inches
1502	10	0.3937	26	1.0236	12	.4724
1502A	12	0.4724	28	1.1024	12	.4724
1503	15	0.5906	31	1.2205	12	.4724
1503A	18	0.7087	35	1.3780	12	.4724
1504	20	0.7874	37	1.4567	12	.4724
1504A	22	0.8661	42	1.6535	14	.5512
1505	25	0.9843	45	1.7717	14	.5512
1506	30	1.1811	50	1.9685	14	.5512
1507	35	1.3780	55	2.1654	16	.6299
1508	40	1.5748	60	2.3622	16	.6299
1509	45	1.7717	68	2.6772	16	.6299
1510	50	1.9685	74	2.9134	18	.7087
1511	55	2.1654	78	3.0709	18	.7087
1512	60	2.3622	82	3.2283	18	.7087
1513	65	2.5591	90	3.5433	20	.7874
1515	75	2.9528	100	3.9370	20	.7874
1516	80	3.1496	110	4.3307	22	.8661
1518	90	3.5433	120	4.7244	22	.8661
1519	95	3.7402	130	5.1181	25	.9843
1520	100	3.9370	135	5.3150	25	.9843
1521	105	4.1339	140	5.5118	25	.9843
1522	110	4.3307	145	5.7087	25	.9843
1524	120	4.7244	160	6.2992	27	1.0630

N-1800 — MEDIUM SERIES

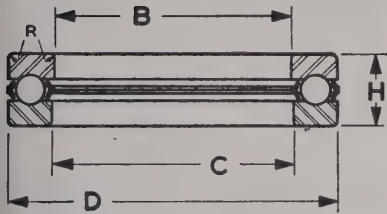
Bearing No.	BORE		OUTSIDE DIA.		WIDTH	
	Mm	Inches	Mm	Inches	Mm	Inches
N1803	15	0.5906	35	1.3780	14	0.5512
N1804	20	0.7874	40	1.5748	14	0.5512
N1805	25	0.9843	48	1.8898	15.5	0.6102
N1806	30	1.1811	53	2.0866	15.5	0.6102
N1807	35	1.3780	62	2.4409	18	0.7087
N1808	40	1.5748	64	2.5197	18	0.7087
N1809	45	1.7717	73	2.8740	22	0.8661
N1810	50	1.9685	78	3.0709	22	0.8661
N1811	55	2.1654	88	3.4646	24.5	0.9646
N1812	60	2.3622	90	3.5433	24.5	0.9646
N1813	65	2.5591	100	3.9370	27	1.0630
N1814	70	2.7559	103	4.0551	27	1.0630
N1815	75	2.9528	110	4.3307	27	1.0630
N1816	80	3.1496	115	4.5276	29	1.1417
N1817	85	3.3465	125	4.9213	30.5	1.2008
N1818	90	3.5433	135	5.3150	30.5	1.2008
N1819	95	3.7402	140	5.5118	32.5	1.2795
N1820	100	3.9370	150	5.9055	32.5	1.2795
N1821	105	4.1339	155	6.1024	40	1.5748
N1822	110	4.3307	160	6.2992	40	1.5748
N1823	115	4.5276	165	6.4961	43	1.6929
N1824	120	4.7244	170	6.6929	46	1.8110
N1825	125	4.9213	175	6.8898	46.5	1.8307
*N1826	130	5.1181	190	7.4803	50	1.9685
N1828	140	5.5118	200	7.8740	52	2.0472

*Consult for availability.

NEED HELP ON BEARINGS—CALL US

MRC BALL THRUST BEARINGS SINGLE ACTING TYPE

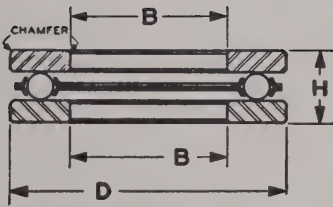
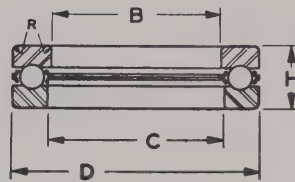
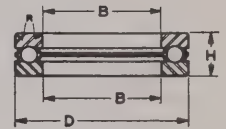
METRIC 2900 SERIES GROOVED RACES



2900 Series

Bearing Number	B		C		D		H		R Inches
	Mm	Inches	Mm	Inches	Mm	Inches	Mm	Inches	
2900	10	.3937	10.2	.402	26	1.0236	12	.472	.04
2901	12	.4724	12.2	.480	28	1.1024	12	.472	.04
2902	15	.5906	15.2	.598	31	1.2205	12	.472	.04
2903	18	.7087	18.2	.717	35	1.3780	12	.472	.04
2904	20	.7874	20.2	.795	37	1.4567	12	.472	.04
2904 1/2	22	.8661	22.2	.874	42	1.6535	14	.551	.04
2905	25	.9843	25.2	.992	45	1.7717	14	.551	.04
2906	30	1.1811	30.2	1.189	50	1.9685	14	.551	.04
2907	35	1.3780	35.5	1.398	55	2.1654	16	.630	.04
2908	40	1.5748	40.2	1.583	60	2.3622	16	.630	.04
2909	45	1.7717	45.2	1.780	68	2.6772	16	.630	.04
2910	50	1.9685	50.5	1.988	74	2.9134	18	.709	.04
2911	55	2.1654	55.2	2.173	78	3.0709	18	.709	.04
2912	60	2.3622	60.2	2.370	82	3.2283	18	.709	.04
2913	65	2.5591	65.2	2.567	90	3.5433	20	.787	.04
2914	70	2.7559	70.2	2.764	95	3.7402	20	.787	.04
2915	75	2.9528	75.2	2.961	100	3.9370	20	.787	.04
2916	80	3.1496	80.2	3.158	110	4.3307	22	.866	.04
2917	85	3.3465	85.2	3.354	115	4.5276	22	.866	.04
2918	90	3.5433	90.2	3.551	120	4.7244	22	.866	.04
2919	95	3.7402	95.2	3.748	130	5.1181	25	.984	.04
2920	100	3.9370	100.2	3.945	135	5.3150	25	.984	.04
2921	105	4.1339	105.5	4.154	140	5.5118	25	.984	.04
2922	110	4.3307	110.2	4.339	145	5.7087	25	.984	.04
2923	115	4.5276	115.2	4.535	150	5.9055	25	.984	.04
2924	120	4.7244	120.2	4.732	160	6.2992	27	1.063	.04
2925	125	4.9213	125.2	4.929	165	6.4961	27	1.063	.04

RIGID INCH TYPES


C Series
Flat Races

B Series
Grooved Races


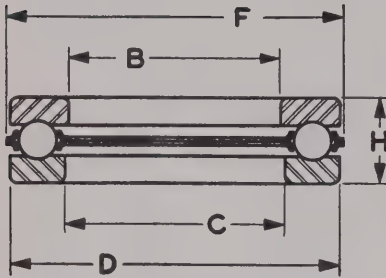
Old B Series Thrust bearings have bores of both washers same diameter "B." Furnished only where specially specified. (These bearings are stamped "BA.")

Bearing Number	B Inches	D Inches	H Inches	Cham. Inches
1-C	1/16	1 1/16	5/16	.02
2-C	3/16	1 1/8	5/16	.02
3-C	1/8	1 1/4	5/16	.02
4-C	11/16	1 11/16	5/16	.02
5-C	3/4	1 15/16	5/16	.02
6-C	13/16	1 15/16	5/16	.02
7-C	7/8	1 27/32	5/8	.02
8-C	15/16	1 27/32	5/8	.02
9-C	1	1 31/32	5/8	.02
10-C	1 1/16	2 1/16	5/8	.02
11-C	1 1/8	2 3/8	5/8	.02
12-C	1 1/4	2 5/8	5/8	.02
13-C	1 1/2	2 11/8	5/8	.02
14-C	1 5/8	2 11/8	5/8	.02
15-C	1 3/4	2 15/8	5/8	.02
16-C	1 7/8	2 15/8	5/8	.02
17-C	1 15/16	2 19/16	5/8	.02
18-C	1 15/16	2 19/16	5/8	.02
19-C	1 5/8	2 31/16	15/16	.04
20-C	1 11/16	2 31/16	15/16	.04
21-C	1 3/4	3 3/16	15/16	.04
22-C	1 13/16	3 3/16	15/16	.04
23-C	1 7/8	3 7/16	15/16	.04
24-C	1 15/16	3 7/16	15/16	.04
25-C	2	3 11/16	15/16	.04
26-C	2 1/16	3 19/16	15/16	.04
27-C	2 1/8	3 23/16	15/16	.04
28-C	2 3/8	3 27/16	15/16	.04
29-C	2 1/2	3 31/16	15/16	.04
30-C	2 5/8	4 11/16	1	.04
31-C	2 3/4	4 15/16	1	.04
32-C	3	4 23/16	1	.04
33-C	3 1/4	4 31/16	1	.04
34-C	3 1/2	5 7/16	1	.04

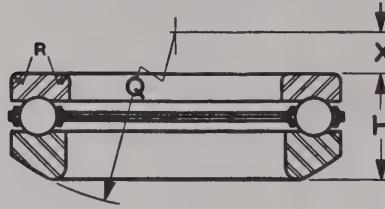
Bearing Number	B Inches	C Inches	D Inches	H Inches	R Inches
1-B	1/16	1 1/16	1 1/16	5/16	.04
2-B	3/16	1 1/8	1 1/8	5/16	.04
3-B	1/4	1 1/4	1 1/4	5/16	.04
4-B	7/8	2 3/8	2 1/2	5/8	.04
5-B	1	1 1/2	1 1/2	5/8	.04
6-B	1 1/8	1 1/2	1 1/2	5/8	.04
7-B	1 1/4	1 3/4	2 3/4	23/32	.04
8-B	1 1/2	1 3/4	2 3/4	23/32	.04
9-B	1 3/4	1 3/4	2 1/2	23/32	.06
10-B	1 5/8	1 3/4	2 1/2	23/32	.06
11-B	1 3/4	1 3/4	2 1/2	23/32	.06
12-B	1 7/8	1 3/4	2 1/2	23/32	.06
13-B	2	2 1/2	2 1/2	3/4	.06
13-B4	2	2 1/2	2 1/2	3/4	.06
14-B	2 1/4	2 1/2	3 5/16	7/8	.06
14-B4	2 1/4	2 1/2	3 11/16	7/8	.06
15-B	2 1/2	2 1/2	3 11/16	1	.06
15-B4	2 1/2	2 1/2	3 23/32	1	.06
16-B	2 3/4	2 3/4	4	1	.08
16-B4	2 3/4	2 3/4	4 1/16	1	.08
17-B	3	3 1/2	4 3/16	1 1/8	.08
17-B4	3	3 1/2	4 3/8	1 1/8	.08
18-B	3 1/2	3 1/2	5	1 1/4	.08
18-B4	3 1/2	3 1/2	5 1/16	1 1/4	.08
19-B	4	4 1/2	5 3/4	1 3/8	.10
19-B4	4	4 1/2	5 13/16	1 3/8	.10

MRC BALL THRUST BEARINGS
METRIC SINGLE ACTING TYPE
RIGID AND SELF ALIGNING

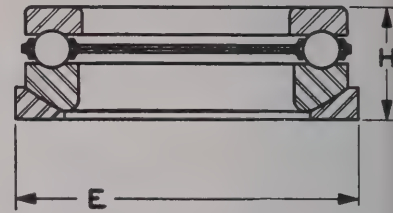
SOME SIZES
NOT CURRENTLY
IN PRODUCTION.
CHECK FOR
AVAILABILITY.

**1100-F Series**

The seats of this type of bearing are ground perfectly parallel. The bearing's satisfactory performance is dependent upon correct alignment of seating shoulders on shaft and in housing.

**1100 Series**

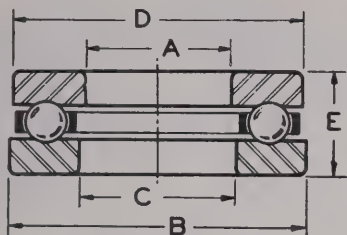
One seat of this bearing is ground spherical. The housing for this bearing must be machined to a corresponding radius.

**1100-U Series**

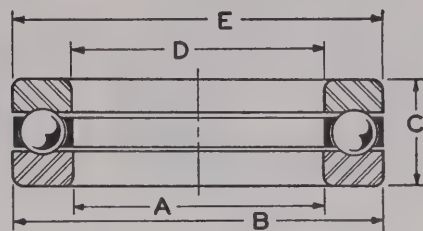
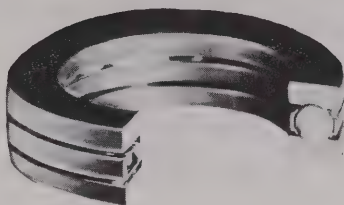
This bearing is identical with the 1100 Series type but with the addition of an aligning washer, which permits mounting into a housing with a straight shoulder.

1100-F Series Flat Seats Bearing No.	1100 Series Spherical Seats Bearing No.	1100-U Series Self-Aligning Bearing No.	(Dimensions in Mm)										
			B	C	D	E	F	X	Q	R	Height H		
											1100-F	1100	1100-U
1102-F	1102	1102-U	10	12	30	35	30.6	10.0	25	1.0	12	12.7	15
1103-F	1103	1103-U	15	17	35	38	34.8	13.4	30	1.0	14	13.7	17
1104-F	1104	1104-U	20	22	40	45	40.9	16.6	35	1.0	14	14.4	18
1105-F	1105	1105-U	25	27	48	50	46.3	15.0	35	1.0	15	14.9	19
1105-F1	.....	.....	25	27	48	..	46.3	.....	..	1.0	15.5	.....	..
1106-F	1106	1106-U	30	32	53	59	52.8	17.8	40	1.0	15	15.9	20
1106-F2	.....	.....	30	32	53	..	52.8	.....	..	1.0	15.5	.....	..
1107-F	1107	1107-U	35	37	62	67	61.5	23.8	50	1.5	18	19.1	23
1108-F	1108	1108-U	40	42	64	69	63.8	22.4	50	1.5	18	20	23
1109-F	1109	1109-U	45	47	73	78	72.8	28.5	60	1.5	20	23	27
1109-F2	.....	.....	45	47	73	..	72.8	.....	..	1.5	22	.....	..
1110-F	1110	1110-U	50	52	78	83	77.8	32.8	65	1.5	20	23.1	27
1110-F1	.....	.....	50	52	78	..	77.8	.....	..	1.5	22	.....	..
1111-F	1111	1111-U	55	57	88	94	87.3	33.6	70	1.5	24	25.7	30
1111-F2	.....	.....	55	57	88	..	87.3	.....	..	1.5	24.5	.....	..
1112-F	1112	1112-U	60	62	90	96	92.0	38.0	75	1.5	24	26	30
1112-F2	.....	.....	60	62	90	..	92.0	.....	..	1.5	24.5	.....	..
1113-F	1113	1113-U	65	67	100	105	99.8	38.4	80	2.0	27	29.3	34
1114-F	1114	1114-U	70	72	103	109	104.0	42.8	85	2.0	27	29.5	34
1115-F	1115	1115-U	75	77	110	114	109.6	47.0	90	2.0	27	29.5	34
1116-F	1116	1116-U	80	82	115	124	117.5	48.4	95	2.0	31	32.6	37
1116-F3	.....	.....	80	82	115	..	117.5	.....	..	2.0	29	.....	..
1117-F	1117	1117-U	85	88	125	138	127.0	55.0	105	2.0	34	35.2	40
1117-F1	.....	.....	85	88	125	..	124.9	.....	..	2.0	30.5	.....	..
1118-F	1118	1118-U	90	93	135	141	134.5	59.0	110	2.5	36	35.6	40
1118-F1	.....	.....	90	93	135	..	134.5	.....	..	2.5	30.5	.....	..
1119-F	1119	1119-U	95	98	140	151	141.3	60.0	115	2.5	38	38.6	43.5
1119-F2	.....	.....	95	98	140	..	141.3	.....	..	2.5	32.5	.....	..
1120-F	1120	1120-U	100	103	150	156	148.8	70.0	125	2.5	38	38.6	44
1120-F2	.....	.....	100	100.2	150	..	148.8	.....	..	2.5	32.5	.....	..
1121-F	1121	1121-U	105	108	155	163	155.2	69.5	130	2.5	40	42.8	49
1123-F	1123	1123-U	115	118	165	173	167.1	75.0	140	3.0	43	46.2	52
1125-F	1125	1125-U	125	128	180	186	181.4	80.5	150	3.0	46.5	49.8	56
1125-F6	1125-6	1125-U6	125	128	175	186	174.6	79.8	150	3.0	46.5	53	56
1128-F	1128	1128-U	140	143	200	212	202.0	91.0	170	3.0	52	56.8	62

NORMA-HOFFMANN BALL THRUST BEARINGS SINGLE-DIRECTION TYPE



W SERIES — LIGHT



DL LIGHT SERIES

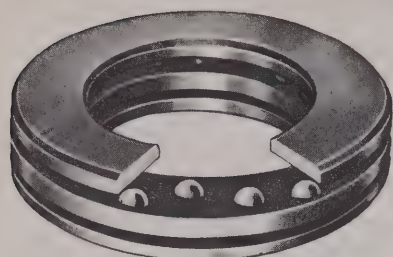
Bearing No.	A	B	C	D	E
W- 1/4	1/4	13/16	1/4	13/16	3/8
W- 5/16	5/16	1	5/16	1	17/32
W- 3/8	3/8	1	3/8	1	17/32
W- 7/16	7/16	1 1/32	7/16	1 1/32	5/8
W- 1/2	1/2	1 1/32	1/2	1 1/32	5/8
W- 9/16	9/16	1 13/32	9/16	1 13/32	5/8
W- 5/8	5/8	1 13/32	5/8	1 13/32	5/8
W- 3/4	3/4	1 17/32	3/4	1 17/32	5/8
W- 7/8	7/8	1 21/32	7/8	1 21/32	5/8
W- 1	1	1 25/32	1	1 25/32	5/8
W- 1 1/8	1 1/8	1 29/32	1 1/8	1 29/32	5/8
W- 1 1/4	1 1/4	2 3/32	1 1/4	2 3/32	23/32
W- 1 3/8	1 3/8	2 7/32	1 3/8	2 7/32	23/32
W- 1 1/2	1 1/2	2 11/32	1 1/2	2 11/32	23/32
W- 1 5/8	1 5/8	2 15/32	1 5/8	2 15/32	23/32
W- 1 3/4	1 3/4	2 19/32	1 3/4	2 19/32	3/4
W- 1 7/8	1 7/8	2 23/32	1 7/8	2 23/32	3/4
W- 2	2	2 27/32	2	2 27/32	3/4
W- 2 1/8	2 1/8	3 1/32	2 1/8	3 1/32	7/8
W- 2 1/4	2 1/4	3 1/32	2 1/4	3 1/32	7/8
W- 2 3/8	2 3/8	3 5/32	2 3/8	3 5/32	1
W- 2 1/2	2 1/2	3 9/32	2 1/2	3 9/32	1
W- 2 5/8	2 5/8	3 13/32	2 5/8	3 13/32	1
W- 2 3/4	2 3/4	4 1/32	2 3/4	4 1/32	1
W- 2 7/8	2 7/8	4 5/32	2 7/8	4 1/8	1
W- 3	3	4 9/32	3 1/16	4 5/16	1 1/8
*W- 3 1/8	3 1/8	4 13/32	3 1/16	4 7/16	1 1/8
W- 3 1/4	3 1/4	4 17/32	3 1/16	4 3/4	1 1/4
W- 3 3/8	3 3/8	4 21/32	3 1/16	4 7/8	1 1/4
W- 3 1/2	3 1/2	5 1/16	3 1/16	5	1 1/4
*W- 3 5/8	3 5/8	5 5/16	3 1/16	5 1/8	1 1/4
W- 3 3/4	3 3/4	5 9/16	3 1/16	5 1/4	1 1/4
W- 3 7/8	3 7/8	5 13/16	3 1/16	5 5/8	1 3/8
W- 4	4	5 17/16	4 1/16	5 3/4	1 3/8
W- 4 1/4	4 1/4	6 1/16	4 5/16	6 1/4	1 3/4
W- 4 1/2	4 1/2	6 5/16	4 9/16	6 1/2	1 3/4
W- 4 3/4	4 3/4	7 1/16	4 13/16	7	2
W- 5	5	7 5/16	5 1/16	7 1/4	2
W- 5 1/2	5 1/2	8 1/16	5 5/16	8	2 3/16
W- 6	6	8 1/16	6 1/16	8 5/8	2 3/8
W- 6 1/2	6 1/2	9 13/32	6 5/8	9 3/32	2 1/2
W- 7	7	10 1/8	7 7/8	10	2 5/8
*W- 7 1/2	7 1/2	10 5/8	7 7/8	10 3/4	2 3/4
*W- 8	8	11 5/8	8 7/8	11 1/2	3
*W- 9	9	13 1/8	9 7/8	13	3 1/2

Bearing Number	BORE (A)		OUTSIDE DIA. (E-B)		WIDTH (C)		BORE (D)	
	Mm	Inches	Mm	Inches	Mm	Inches	Mm	Inches
DL- 12	12	.4724	23	.906	9.0	.354	12.1	.476
DL- 15	15	.5906	26	1.024	9.0	.354	15.1	.594
DL- 17	17	.6693	28	1.102	9.5	.374	17.1	.673
DL- 20	20	.7874	39	1.535	13.2	.520	20.1	.791
DL- 25	25	.9843	45	1.772	14.0	.551	25.1	.988
DL- 30	30	1.1811	53	2.087	15.5	.610	30.1	1.185
DL- 35	35	1.3780	57	2.244	17.3	.681	35.1	1.382
DL- 40	40	1.5748	64	2.520	19.0	.748	40.1	1.579
DL- 45	45	1.7717	72	2.835	22.5	.886	45.1	1.776
DL- 50	50	1.9685	80	3.150	24.5	.965	50.1	1.972
DL- 55	55	2.1654	88	3.465	28.0	1.102	55.1	2.169
DL- 60	60	2.3622	98	3.858	30.5	1.201	60.1	2.366
DL- 65	65	2.5591	103	4.055	31.5	1.240	65.1	2.563
*DL- 70	70	2.7559	108	4.252	32.0	1.260	70.1	2.760
DL- 75	75	2.9528	112	4.409	32.5	1.280	75.1	2.957
*DL- 80	80	3.1496	118	4.646	34.0	1.339	80.1	3.154
*DL- 85	85	3.3465	125	4.921	34.0	1.339	85.1	3.350
*DL- 90	90	3.5433	134	5.276	38.0	1.496	90.1	3.547

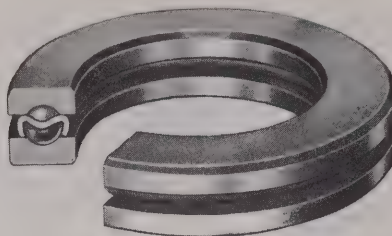
DM MEDIUM SERIES

*DM- 15	15	.5906	35	1.378	15.5	.610	15.1	.594
DM- 17	17	.6693	39	1.535	19.0	.748	17.1	.673
DM- 20	20	.7874	43	1.693	19.0	.748	20.1	.791
DM- 25	25	.9843	53	2.087	22.0	.866	25.1	.988
DM- 30	30	1.1811	62	2.441	24.5	.964	30.1	1.185
DM- 35	35	1.3780	68	2.677	24.5	.964	35.1	1.382
DM- 40	40	1.5748	75	2.953	28.0	1.102	40.1	1.579
DM- 45	45	1.7717	80	3.150	28.0	1.102	45.1	1.776
DM- 50	50	1.9685	85	3.346	31.5	1.240	50.1	1.972
DM- 55	55	2.1654	95	3.740	35.0	1.378	55.1	2.169
DM- 60	60	2.3622	103	4.055	38.0	1.496	60.1	2.366
DM- 65	65	2.5591	112	4.409	41.5	1.634	65.1	2.563
*DM- 70	70	2.7559	122	4.803	41.5	1.634	70.1	2.760
*DM- 75	75	2.9528	125	4.921	41.5	1.634	75.1	2.957
DM- 80	80	3.1496	134	5.276	45.0	1.772	80.1	3.154
*DM- 85	85	3.3465	140	5.512	45.0	1.772	85.1	3.350
*DM- 90	90	3.5433	158	6.221	52.0	2.047	90.1	3.547
*DM- 95	95	3.7402	164	6.457	52.0	2.047	95.1	3.744

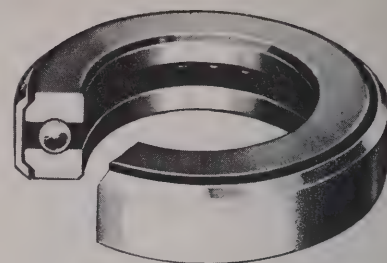
Consult for availability.

OBB PRECISION BALL THRUST BEARINGS**INCH DIMENSIONS**

Flat Type



Grooved Type



Banded Type

ITEMS SHOWN IN FOLLOWING TABLES ARE LISTED PROGRESSIVELY ACCORDING TO BORE

Bore Inches	Outside Dia. Inches	Width Inches	Ball Size	Type	OBB No.
$\frac{3}{16}$	$\frac{7}{16}$	$\frac{3}{16}$	$\frac{1}{16}$	Flat	FT-01
$\frac{3}{16}$	$\frac{17}{32}$	$\frac{3}{16}$	$\frac{1}{16}$	Flat	FT-02
$\frac{3}{16}$	$\frac{5}{8}$	$\frac{1}{4}$	$\frac{3}{32}$	Flat	FT-03
$\frac{3}{16}$	$\frac{15}{16}$	$\frac{3}{8}$	$\frac{1}{8}$	Flat	FT-04
$\frac{1}{4}$	$\frac{9}{16}$	$\frac{7}{32}$	$\frac{3}{32}$	Flat	FT-05
$\frac{1}{4}$	$\frac{5}{8}$	$\frac{7}{16}$	$\frac{1}{8}$	Grooved	2004
$\frac{1}{4}$	$\frac{21}{32}$	$\frac{1}{4}$	$\frac{1}{8}$	Flat	EW- $\frac{1}{4}$
$\frac{1}{4}$	$\frac{13}{16}$	$\frac{3}{8}$	$\frac{1}{8}$	Flat	FT-06
$\frac{1}{4}$	$\frac{27}{32}$	$\frac{3}{8}$	$\frac{1}{8}$	Flat	FT-07
$\frac{5}{16}$	$\frac{5}{8}$	$\frac{1}{4}$	$\frac{3}{32}$	Flat	FT-08
$\frac{5}{16}$	$\frac{3}{4}$	$\frac{1}{4}$	$\frac{1}{8}$	Flat	EW- $\frac{5}{16}$
$\frac{5}{16}$	$\frac{27}{32}$	$\frac{3}{8}$	$\frac{1}{8}$	Flat	FT-09
$\frac{5}{16}$	1	$\frac{17}{32}$	$\frac{3}{16}$	Grooved	4302
$\frac{3}{8}$	$\frac{11}{16}$	$\frac{9}{32}$	$\frac{3}{32}$	Flat	FT-010
$\frac{3}{8}$	$\frac{11}{16}$	$\frac{1}{2}$	$\frac{1}{8}$	Banded	248
$\frac{3}{8}$	$\frac{13}{16}$	$\frac{1}{4}$	$\frac{1}{8}$	Flat	EW- $\frac{3}{8}$
$\frac{3}{8}$	$\frac{11}{32}$	$\frac{1}{2}$	$\frac{3}{16}$	Flat	FT-011
$\frac{3}{8}$	$\frac{13}{32}$	$\frac{1}{2}$	$\frac{3}{16}$	Flat	FT-012
$\frac{3}{8}$	1	$\frac{17}{32}$	$\frac{3}{16}$	Grooved	4303
$\frac{13}{32}$	$\frac{3}{4}$	$\frac{1}{4}$	$\frac{3}{32}$	Grooved	2003
$\frac{7}{16}$	$\frac{13}{16}$	$\frac{5}{16}$	$\frac{1}{8}$	Flat	FT-013
$\frac{7}{16}$	$\frac{7}{8}$	$\frac{1}{4}$	$\frac{1}{8}$	Grooved	2085
$\frac{7}{16}$	$\frac{15}{16}$	$\frac{1}{2}$	$\frac{5}{32}$	Grooved	2063
$\frac{7}{16}$	$\frac{13}{32}$	$\frac{1}{2}$	$\frac{3}{16}$	Flat	FT-014
$\frac{1}{2}$	$\frac{3}{4}$	$\frac{7}{16}$	$\frac{3}{32}$	Grooved	2002
$\frac{1}{2}$	$\frac{7}{8}$	$\frac{1}{4}$	$\frac{1}{8}$	Flat	FT-015
$\frac{1}{2}$	$\frac{7}{8}$	$\frac{3}{8}$	$\frac{1}{8}$	Flat	FT-016
$\frac{1}{2}$	$\frac{7}{8}$	$\frac{9}{16}$	$\frac{1}{8}$	Grooved	2097
$\frac{1}{2}$	$\frac{81}{32}$	$\frac{1}{4}$	$\frac{1}{8}$	Flat	EW- $\frac{1}{2}$
$\frac{1}{2}$	$\frac{17}{32}$	$\frac{9}{16}$	$\frac{3}{16}$	Flat	FT-1
$\frac{1}{2}$	$\frac{17}{32}$	$\frac{9}{16}$	$\frac{3}{16}$	Grooved	GT-1
$\frac{1}{2}$	$\frac{17}{32}$	$\frac{9}{16}$	$\frac{3}{16}$	Banded	D-1
$\frac{1}{2}$	$\frac{17}{32}$	$\frac{5}{8}$	$\frac{1}{4}$	Banded	B-1
$\frac{1}{2}$	$\frac{17}{32}$	$\frac{5}{8}$	$\frac{1}{4}$	Grooved	C-1
$\frac{1}{2}$	$\frac{19}{32}$	$\frac{5}{8}$	$\frac{1}{4}$	Grooved	4304
$\frac{1}{2}$	$\frac{17}{16}$	$\frac{5}{8}$	$\frac{1}{4}$	Grooved	MS-1
$\frac{9}{16}$	$\frac{17}{32}$	$\frac{9}{16}$	$\frac{3}{16}$	Flat	FT-2
$\frac{9}{16}$	$\frac{17}{32}$	$\frac{9}{16}$	$\frac{3}{16}$	Grooved	GT-2
$\frac{9}{16}$	$\frac{17}{32}$	$\frac{9}{16}$	$\frac{3}{16}$	Banded	D-2
$\frac{9}{16}$	$\frac{17}{32}$	$\frac{5}{8}$	$\frac{1}{4}$	Banded	B-2
$\frac{9}{16}$	$\frac{17}{32}$	$\frac{5}{8}$	$\frac{1}{4}$	Grooved	C-2
$\frac{9}{16}$	$\frac{17}{16}$	$\frac{5}{8}$	$\frac{1}{4}$	Grooved	MS-2
$\frac{5}{8}$	1	$\frac{1}{2}$	$\frac{1}{8}$	Grooved	2006
$\frac{5}{8}$	$\frac{13}{32}$	$\frac{9}{32}$	$\frac{5}{32}$	Flat	EW- $\frac{5}{8}$
$\frac{5}{8}$	$\frac{111}{32}$	$\frac{9}{16}$	$\frac{3}{16}$	Flat	FT-3
$\frac{5}{8}$	$\frac{111}{32}$	$\frac{9}{16}$	$\frac{3}{16}$	Grooved	GT-3
$\frac{5}{8}$	$\frac{111}{32}$	$\frac{9}{16}$	$\frac{3}{16}$	Banded	D-3
$\frac{5}{8}$	$\frac{111}{32}$	$\frac{5}{8}$	$\frac{1}{4}$	Banded	B-3
$\frac{5}{8}$	$\frac{111}{32}$	$\frac{5}{8}$	$\frac{1}{4}$	Grooved	C-3
$\frac{5}{8}$	$\frac{113}{32}$	$\frac{5}{8}$	$\frac{1}{4}$	Grooved	4305

Bore Inches	Outside Dia. Inches	Width Inches	Ball Size	Type	OBB No.
$\frac{5}{8}$	$\frac{19}{16}$	$\frac{5}{8}$	$\frac{1}{4}$	Grooved	MS-3
$\frac{11}{16}$	$\frac{111}{32}$	$\frac{9}{16}$	$\frac{3}{16}$	Flat	FT-4
$\frac{11}{16}$	$\frac{111}{32}$	$\frac{9}{16}$	$\frac{3}{16}$	Grooved	GT-4
$\frac{11}{16}$	$\frac{111}{32}$	$\frac{9}{16}$	$\frac{3}{16}$	Banded	D-4
$\frac{11}{16}$	$\frac{111}{32}$	$\frac{5}{8}$	$\frac{1}{4}$	Banded	B-4
$\frac{11}{16}$	$\frac{111}{32}$	$\frac{5}{8}$	$\frac{1}{4}$	Grooved	C-4
$\frac{11}{16}$	$\frac{19}{16}$	$\frac{5}{8}$	$\frac{1}{4}$	Grooved	MS-4
$\frac{3}{4}$	$\frac{11}{8}$	$\frac{5}{8}$	$\frac{1}{4}$	Banded	287
$\frac{3}{4}$	$\frac{11}{4}$	$\frac{7}{16}$	$\frac{3}{16}$	Grooved	2009
$\frac{3}{4}$	$\frac{11}{4}$	$\frac{9}{16}$	$\frac{3}{16}$	Grooved	2005
$\frac{3}{4}$	$\frac{15}{16}$	$\frac{5}{32}$	$\frac{5}{32}$	Flat	EW- $\frac{3}{4}$
$\frac{3}{4}$	$\frac{115}{32}$	$\frac{9}{16}$	$\frac{3}{16}$	Flat	FT-5
$\frac{3}{4}$	$\frac{115}{32}$	$\frac{9}{16}$	$\frac{3}{16}$	Grooved	GT-5
$\frac{3}{4}$	$\frac{115}{32}$	$\frac{9}{16}$	$\frac{3}{16}$	Banded	D-5
$\frac{3}{4}$	$\frac{115}{32}$	$\frac{5}{8}$	$\frac{1}{4}$	Banded	B-5
$\frac{3}{4}$	$\frac{115}{32}$	$\frac{5}{8}$	$\frac{1}{4}$	Grooved	C-5
$\frac{3}{4}$	$\frac{117}{32}$	$\frac{5}{8}$	$\frac{1}{4}$	Grooved	4306
$\frac{3}{4}$	$\frac{117}{16}$	$\frac{5}{8}$	$\frac{1}{4}$	Grooved	MS-5
$\frac{13}{16}$	$\frac{11}{4}$	$\frac{1}{2}$	$\frac{5}{32}$	Grooved	2007
$\frac{13}{16}$	$\frac{115}{32}$	$\frac{9}{16}$	$\frac{3}{16}$	Flat	FT-6
$\frac{13}{16}$	$\frac{115}{32}$	$\frac{9}{16}$	$\frac{3}{16}$	Grooved	GT-6
$\frac{13}{16}$	$\frac{115}{32}$	$\frac{9}{16}$	$\frac{3}{16}$	Banded	D-6
$\frac{13}{16}$	$\frac{115}{32}$	$\frac{5}{8}$	$\frac{1}{4}$	Banded	B-6
$\frac{13}{16}$	$\frac{115}{32}$	$\frac{5}{8}$	$\frac{1}{4}$	Grooved	C-6
$\frac{13}{16}$	$\frac{117}{16}$	$\frac{5}{8}$	$\frac{1}{4}$	Grooved	MS-6
$\frac{7}{8}$	$\frac{13}{8}$	$\frac{9}{16}$	$\frac{3}{16}$	Grooved	2011
$\frac{7}{8}$	$\frac{11}{2}$	$\frac{3}{8}$	$\frac{3}{16}$	Flat	EW- $\frac{7}{8}$
$\frac{7}{8}$	$\frac{121}{32}$	$\frac{5}{8}$	$\frac{3}{16}$	Grooved	4307
$\frac{7}{8}$	$\frac{127}{32}$	$\frac{5}{8}$	$\frac{1}{4}$	Flat	FT-7
$\frac{7}{8}$	$\frac{127}{32}$	$\frac{5}{8}$	$\frac{1}{4}$	Grooved	GT-7
$\frac{7}{8}$	$\frac{127}{32}$	$\frac{5}{8}$	$\frac{1}{4}$	Banded	D-7
$\frac{7}{8}$	$\frac{127}{32}$	$\frac{3}{4}$	$\frac{5}{16}$	Banded	B-7
$\frac{7}{8}$	$\frac{127}{32}$	$\frac{3}{4}$	$\frac{5}{16}$	Grooved	C-7
$\frac{7}{8}$	$\frac{115}{16}$	$\frac{3}{4}$	$\frac{5}{16}$	Grooved	MS-7
$\frac{15}{16}$	$\frac{11}{2}$	$\frac{1}{2}$	$\frac{3}{16}$	Grooved	2001
$\frac{15}{16}$	$\frac{127}{32}$	$\frac{5}{8}$	$\frac{1}{4}$	Flat	FT-8
$\frac{15}{16}$	$\frac{127}{32}$	$\frac{5}{8}$	$\frac{1}{4}$	Grooved	GT-8
$\frac{15}{16}$	$\frac{127}{32}$	$\frac{5}{8}$	$\frac{1}{4}$	Banded	D-8
$\frac{15}{16}$	$\frac{127}{32}$	$\frac{3}{4}$	$\frac{5}{16}$	Banded	B-8
$\frac{15}{16}$	$\frac{127}{32}$	$\frac{3}{4}$	$\frac{5}{16}$	Grooved	C-8
$\frac{15}{16}$	$\frac{115}{16}$	$\frac{3}{4}$	$\frac{5}{16}$	Grooved	MS-8
1	$\frac{15}{8}$	$\frac{3}{8}$	$\frac{3}{16}$	Flat	EW-1
1	$\frac{11}{2}$	$\frac{5}{8}$	$\frac{3}{16}$	Grooved	2008
1	$\frac{15}{8}$	$\frac{9}{16}$	$\frac{7}{32}$	Grooved	2087
1	$\frac{13}{4}$	$\frac{9}{16}$	$\frac{3}{16}$	Grooved	2010
1	$\frac{127}{32}$	$\frac{5}{8}$	$\frac{3}{16}$	Grooved	4308
1	$\frac{131}{32}$	$\frac{5}{8}$	$\frac{1}{4}$	Flat	FT-9
1	$\frac{137}{32}$	$\frac{5}{8}$	$\frac{1}{4}$	Grooved	GT-9
1	$\frac{137}{32}$	$\frac{5}{8}$	$\frac{1}{4}$	Banded	D-9
1	$\frac{131}{32}$	$\frac{3}{4}$	$\frac{5}{16}$	Banded	B-9
1	$\frac{137}{32}$	$\frac{3}{4}$	$\frac{5}{16}$	Grooved	C-9
1	$\frac{21}{16}$	$\frac{3}{4}$	$\frac{5}{16}$	Grooved	MS-9

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*Consult for availability.

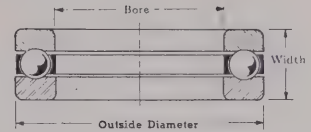
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OBB PRECISION BALL THRUST BEARINGS—CONT'D

INCH DIMENSIONS

(Continued From Previous Page)

PROGRESSIVE LISTINGS ACCORDING TO BORE

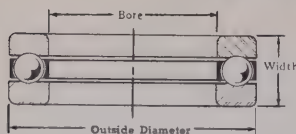


Bore Inches	Outside Dia. Inches	Width Inches	Ball Size	Type	OBB No.
1 ¹ / ₁₆	1 ³¹ / ₃₂	5 ⁵ / ₈	1 ¹ / ₄	Flat	FT-10
1 ¹ / ₁₆	1 ³¹ / ₃₂	5 ⁵ / ₈	1 ¹ / ₄	Grooved	GT-10
1 ¹ / ₁₆	1 ³¹ / ₃₂	5 ⁵ / ₈	1 ¹ / ₄	Banded	D-10
1 ¹ / ₁₆	1 ³¹ / ₃₂	3 ³ / ₄	5 ⁵ / ₁₆	Banded	B-10
1 ¹ / ₁₆	1 ³¹ / ₃₂	3 ³ / ₄	5 ⁵ / ₁₆	Grooved	C-10
1 ¹ / ₁₆	2 ¹ / ₁₆	3 ³ / ₄	5 ⁵ / ₁₆	Grooved	MS-10
1 ¹ / ₈	1 ³ / ₄	3 ³ / ₈	3 ³ / ₁₆	Flat	EW-1 ¹ / ₈
1 ¹ / ₈	1 ⁷ / ₈	9 ⁹ / ₁₆	3 ³ / ₁₆	Grooved	2024
1 ¹ / ₈	1 ²⁹ / ₃₂	5 ⁵ / ₈		Grooved	4309
1 ¹ / ₈	2	5 ⁵ / ₈		Banded	856-E
1 ¹ / ₈	2 ³ / ₃₂	5 ⁵ / ₈	1 ¹ / ₄	Flat	FT-11
1 ¹ / ₈	2 ³ / ₃₂	5 ⁵ / ₈	1 ¹ / ₄	Grooved	GT-11
1 ¹ / ₈	2 ³ / ₃₂	5 ⁵ / ₈	1 ¹ / ₄	Banded	D-11
1 ¹ / ₈	2 ³ / ₃₂	3 ³ / ₄	5 ⁵ / ₁₆	Banded	B-11
1 ¹ / ₈	2 ³ / ₃₂	3 ³ / ₄	5 ⁵ / ₁₆	Grooved	C-11
1 ¹ / ₈	2 ³ / ₁₆	3 ³ / ₄	5 ⁵ / ₁₆	Grooved	MS-11
1 ³ / ₁₆	2 ³ / ₃₂	5 ⁵ / ₈	1 ¹ / ₄	Flat	FT-12
1 ³ / ₁₆	2 ³ / ₃₂	5 ⁵ / ₈	1 ¹ / ₄	Grooved	GT-12
1 ³ / ₁₆	2 ³ / ₃₂	5 ⁵ / ₈	1 ¹ / ₄	Banded	D-12
1 ³ / ₁₆	2 ³ / ₃₂	3 ³ / ₄	5 ⁵ / ₁₆	Banded	B-12
1 ³ / ₁₆	2 ³ / ₃₂	3 ³ / ₄	5 ⁵ / ₁₆	Grooved	C-12
1 ³ / ₁₆	2 ³ / ₁₆	3 ³ / ₄	5 ⁵ / ₁₆	Grooved	MS-12
1 ¹ / ₄	2 ¹ / ₁₆	1 ¹ / ₂	1 ¹ / ₄	Flat	EW-1 ¹ / ₄
1 ¹ / ₄	2 ³ / ₃₂	2 ³ / ₃₂		Grooved	4310
1 ¹ / ₄	2 ³ / ₁₆	3 ³ / ₄	5 ⁵ / ₁₆	Grooved	MS-13
1 ¹ / ₄	2 ¹¹ / ₃₂	5 ⁵ / ₈	1 ¹ / ₄	Flat	FT-13
1 ¹ / ₄	2 ¹¹ / ₃₂	5 ⁵ / ₈	1 ¹ / ₄	Grooved	GT-13
1 ¹ / ₄	2 ¹¹ / ₃₂	5 ⁵ / ₈	1 ¹ / ₄	Banded	D-13
1 ¹ / ₄	2 ¹¹ / ₃₂	3 ³ / ₄	5 ⁵ / ₁₆	Banded	B-13
1 ¹ / ₄	2 ¹¹ / ₃₂	3 ³ / ₄	5 ⁵ / ₁₆	Grooved	C-13
1 ⁵ / ₁₆	2 ⁵ / ₁₆	3 ³ / ₄	5 ⁵ / ₁₆	Grooved	MS-14
1 ⁵ / ₁₆	2 ¹¹ / ₃₂	5 ⁵ / ₈	1 ¹ / ₄	Flat	FT-14
1 ⁵ / ₁₆	2 ¹¹ / ₃₂	5 ⁵ / ₈	1 ¹ / ₄	Grooved	GT-14
1 ⁵ / ₁₆	2 ¹¹ / ₃₂	5 ⁵ / ₈	1 ¹ / ₄	Banded	D-14
1 ⁵ / ₁₆	2 ¹¹ / ₃₂	3 ³ / ₄	5 ⁵ / ₁₆	Banded	B-14
1 ⁵ / ₁₆	2 ¹¹ / ₃₂	3 ³ / ₄	5 ⁵ / ₁₆	Grooved	C-14
1 ⁵ / ₁₆	2 ³ / ₄	1 ¹ / ₄	1 ¹ / ₂	Flat	H-43
1 ³ / ₈	2 ³ / ₁₆	1 ¹ / ₂	1 ¹ / ₄	Flat	EW-1 ³ / ₈
1 ³ / ₈	2 ³ / ₃₂	2 ³ / ₃₂		Grooved	4311
1 ³ / ₈	2 ⁷ / ₁₆	3 ³ / ₄	5 ⁵ / ₁₆	Grooved	MS-15
1 ³ / ₈	2 ¹⁵ / ₃₂	5 ⁵ / ₈	1 ¹ / ₄	Flat	FT-15
1 ³ / ₈	2 ¹⁵ / ₃₂	5 ⁵ / ₈	1 ¹ / ₄	Grooved	GT-15
1 ³ / ₈	2 ¹⁵ / ₃₂	5 ⁵ / ₈	1 ¹ / ₄	Banded	D-15
1 ³ / ₈	2 ¹⁵ / ₃₂	3 ³ / ₄	5 ⁵ / ₁₆	Banded	B-15
1 ³ / ₈	2 ¹⁵ / ₃₂	3 ³ / ₄	5 ⁵ / ₁₆	Grooved	C-15
1 ⁷ / ₁₆	2 ¹ / ₈	3 ³ / ₈	3 ³ / ₁₆	Grooved	6-340
1 ⁷ / ₁₆	2 ¹ / ₁₆	3 ³ / ₄	5 ⁵ / ₁₆	Grooved	MS-16
1 ⁷ / ₁₆	2 ¹⁵ / ₃₂	5 ⁵ / ₈	1 ¹ / ₄	Flat	FT-16
1 ⁷ / ₁₆	2 ¹⁵ / ₃₂	5 ⁵ / ₈	1 ¹ / ₄	Grooved	GT-16
1 ⁷ / ₁₆	2 ¹⁵ / ₃₂	5 ⁵ / ₈	1 ¹ / ₄	Banded	D-16
1 ⁷ / ₁₆	2 ¹⁵ / ₃₂	3 ³ / ₄	5 ⁵ / ₁₆	Banded	B-16
1 ⁷ / ₁₆	2 ¹⁵ / ₃₂	3 ³ / ₄	5 ⁵ / ₁₆	Grooved	C-16
1 ¹ / ₂	2 ⁵ / ₁₆	1 ¹ / ₂	1 ¹ / ₄	Flat	EW-1 ¹ / ₂
1 ¹ / ₂	2 ¹¹ / ₃₂	2 ³ / ₃₂		Grooved	4312
1 ¹ / ₂	2 ³ / ₁₆	3 ³ / ₄	5 ⁵ / ₁₆	Grooved	MS-17
1 ¹ / ₂	2 ¹⁹ / ₃₂	5 ⁵ / ₈	1 ¹ / ₄	Flat	FT-17
1 ¹ / ₂	2 ¹⁹ / ₃₂	5 ⁵ / ₈	1 ¹ / ₄	Grooved	GT-17
1 ¹ / ₂	2 ¹⁹ / ₃₂	5 ⁵ / ₈	1 ¹ / ₄	Banded	D-17
1 ¹ / ₂	2 ¹⁹ / ₃₂	3 ³ / ₄	5 ⁵ / ₁₆	Banded	B-17
1 ¹ / ₂	2 ¹⁹ / ₃₂	3 ³ / ₄	5 ⁵ / ₁₆	Grooved	C-17
1 ¹ / ₂	3 ¹ / ₂	1 ¹ / ₄	1 ¹ / ₂	Flat	H-44

Bore Inches	Outside Dia. Inches	Width Inches	Ball Size	Type	OBB No.
1 ⁹ / ₁₆	2 ⁹ / ₁₆	3 ³ / ₄	5 ⁵ / ₁₆	Grooved	MS-18
1 ⁹ / ₁₆	2 ¹⁹ / ₃₂	5 ⁵ / ₈	1 ¹ / ₄	Flat	FT-18
1 ⁹ / ₁₆	2 ¹⁹ / ₃₂	5 ⁵ / ₈	1 ¹ / ₄	Grooved	GT-18
1 ⁹ / ₁₆	2 ¹⁹ / ₃₂	5 ⁵ / ₈	1 ¹ / ₄	Banded	D-18
1 ⁹ / ₁₆	2 ¹⁹ / ₃₂	3 ³ / ₄	5 ⁵ / ₁₆	Banded	B-18
1 ⁹ / ₁₆	2 ¹⁹ / ₃₂	3 ³ / ₄	5 ⁵ / ₁₆	Grooved	C-18
1 ⁹ / ₁₆	3 ¹ / ₄	1 ¹ / ₁₆	7 ⁷ / ₁₆	Flat	H-45
1 ⁹ / ₁₆	6 ⁵ / ₁₆	2 ¹ / ₄	1	Flat	H-46
1 ⁵ / ₈	2.383	2 ¹ / ₃₂	5 ⁵ / ₁₆	Grooved	282
1 ⁵ / ₈	2 ⁷ / ₁₆	1 ¹ / ₂	1 ¹ / ₄	Flat	EW-1 ⁵ / ₈
1 ⁵ / ₈	2 ¹⁵ / ₃₂	2 ³ / ₃₂		Grooved	4313
1 ⁵ / ₈	2 ¹³ / ₁₆	7 ⁷ / ₈	3 ³ / ₈	Grooved	MS-19
1 ⁵ / ₈	2 ³¹ / ₃₂	1 ³ / ₁₆	5 ⁵ / ₁₆	Flat	FT-19
1 ⁵ / ₈	2 ³¹ / ₃₂	1 ³ / ₁₆	5 ⁵ / ₁₆	Grooved	GT-19
1 ⁵ / ₈	2 ³¹ / ₃₂	1 ³ / ₁₆	5 ⁵ / ₁₆	Banded	D-19
1 ⁵ / ₈	2 ³¹ / ₃₂	7 ⁷ / ₈	3 ³ / ₈	Banded	B-19
1 ⁵ / ₈	2 ³¹ / ₃₂	7 ⁷ / ₈	3 ³ / ₈	Grooved	C-19
1 ⁵ / ₈	5	1 ⁵ / ₈	5 ⁵ / ₈	Flat	H-47
1 ¹¹ / ₁₆	2 ¹³ / ₁₆	7 ⁷ / ₈	3 ³ / ₈	Grooved	MS-20
1 ¹¹ / ₁₆	2 ³¹ / ₃₂	1 ³ / ₁₆	5 ⁵ / ₁₆	Flat	FT-20
1 ¹¹ / ₁₆	2 ³¹ / ₃₂	1 ³ / ₁₆	5 ⁵ / ₁₆	Grooved	GT-20
1 ¹¹ / ₁₆	2 ³¹ / ₃₂	1 ³ / ₁₆	5 ⁵ / ₁₆	Banded	D-20
1 ¹¹ / ₁₆	2 ³¹ / ₃₂	7 ⁷ / ₈	3 ³ / ₈	Banded	B-20
1 ¹¹ / ₁₆	2 ³¹ / ₃₂	7 ⁷ / ₈	3 ³ / ₈	Grooved	C-20
1 ³ / ₄	2 ⁵ / ₈	5 ⁵ / ₈	9 ⁹ / ₃₂	Flat	EW-1 ³ / ₄
1 ³ / ₄	2 ¹¹ / ₁₆	3 ³ / ₄		Grooved	4314
1 ³ / ₄	2 ¹⁵ / ₁₆	7 ⁷ / ₈	3 ³ / ₈	Grooved	MS-21
1 ³ / ₄	2 ³¹ / ₃₂	1 ¹ / ₂	1 ¹ / ₂	Grooved	2021
1 ³ / ₄	3 ³ / ₃₂	1 ³ / ₁₆	5 ⁵ / ₁₆	Flat	FT-21
1 ³ / ₄	3 ³ / ₃₂	1 ³ / ₁₆	5 ⁵ / ₁₆	Grooved	GT-21
1 ³ / ₄	3 ³ / ₃₂	1 ³ / ₁₆	5 ⁵ / ₁₆	Banded	D-21
1 ³ / ₄	3 ³ / ₃₂	7 ⁷ / ₈	3 ³ / ₈	Banded	B-21
1 ³ / ₄	3 ³ / ₃₂	7 ⁷ / ₈	3 ³ / ₈	Grooved	C-21
1 ³ / ₄	4 ⁵ / ₈	1 ¹ / ₈	7 ⁷ / ₁₆	Flat	H-49
1 ¹³ / ₁₆	2 ¹⁵ / ₁₆	7 ⁷ / ₈	3 ³ / ₈	Grooved	MS-22
1 ¹³ / ₁₆	3 ³ / ₃₂	1 ³ / ₁₆	5 ⁵ / ₁₆	Flat	FT-22
1 ¹³ / ₁₆	3 ³ / ₃₂	1 ³ / ₁₆	5 ⁵ / ₁₆	Grooved	GT-22
1 ¹³ / ₁₆	3 ³ / ₃₂	1 ³ / ₁₆	5 ⁵ / ₁₆	Banded	D-22
1 ¹³ / ₁₆	3 ³ / ₃₂	7 ⁷ / ₈	3 ³ / ₈	Banded	B-22
1 ¹³ / ₁₆	3 ³ / ₃₂	7 ⁷ / ₈	3 ³ / ₈	Grooved	C-22
1 ²⁷ / ₃₂	2 ⁷ / ₁₆	7 ⁷ / ₁₆	3 ³ / ₁₆	Flat	253
1 ⁷ / ₈	2 ³ / ₄	5 ⁵ / ₈	9 ⁹ / ₃₂	Flat	EW-1 ⁷ / ₈
1 ⁷ / ₈	2 ¹³ / ₁₆	3 ³ / ₄		Grooved	4315
1 ⁷ / ₈	3 ¹ / ₁₆	7 ⁷ / ₈	3 ³ / ₈	Grooved	MS-23
1 ⁷ / ₈	3 ⁷ / ₃₂	1 ³ / ₁₆	5 ⁵ / ₁₆	Grooved	GT-23
1 ⁷ / ₈	3 ⁷ / ₃₂	1 ³ / ₁₆	5 ⁵ / ₁₆	Flat	FT-23
1 ⁷ / ₈	3 ⁷ / ₃₂	1 ³ / ₁₆	5 ⁵ / ₁₆	Banded	D-23
1 ⁷ / ₈	3 ⁷ / ₃₂	7 ⁷ / ₈	3 ³ / ₈	Banded	B-23
1 ⁷ / ₈	3 ⁷ / ₃₂	7 ⁷ / ₈	3 ³ / ₈	Grooved	C-23
1 ⁷ / ₈	4 ¹ / ₄	1 ³ / ₈	5 ⁵ / ₈	Flat	H-50
1 ¹⁵ / ₁₆	3 ¹ / ₁₆	7 ⁷ / ₈	3 ³ / ₈	Grooved	MS-24
1 ¹⁵ / ₁₆	3 ⁷ / ₃₂	1 ³ / ₁₆	5 ⁵ / ₁₆	Flat	FT-24
1 ¹⁵ / ₁₆	3 ⁷ / ₃₂	1 ³ / ₁₆	5 ⁵ / ₁₆	Grooved	GT-24
1 ¹⁵ / ₁₆	3 ⁷ / ₃₂	1 ³ / ₁₆	5 ⁵ / ₁₆	Banded	D-24
1 ¹⁵ / ₁₆	3 ⁷ / ₃₂	7 ⁷ / ₈	3 ³ / ₈	Banded	B-24
1 ¹⁵ / ₁₆	3 ⁷ / ₃₂	7 ⁷ / ₈	3 ³ / ₈	Grooved	C-24
1 ³¹ / ₃₂	5	1 ¹ / ₄	1 ¹ / ₂	Flat	H-48

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OBB PRECISION BALL THRUST BEARINGS—CONT'D**INCH DIMENSIONS**

(Continued From Previous Page)

PROGRESSIVE LISTINGS ACCORDING TO BORE

Bore Inches	Outside Dia. Inches	Width Inches	Ball Size	Type	OBB No.
2	2 7/8	5/8	9/32	Flat	EW-2
2	2 31/32	3/4	9/32	Grooved	4316
2	3 1/16	11/16	9/32	Grooved	XW-2
2	3 3/16	7/8	5/16	Grooved	MS-25
2	3 11/32	13/16	5/16	Flat	FT-25
2	3 11/32	13/16	5/16	Grooved	GT-25
2	3 11/32	13/16	5/16	Banded	D-25
2	3 11/32	7/8	3/8	Banded	B-25
2	3 11/32	7/8	3/8	Grooved	C-25
2	5 1/2	1 5/8	3/4	Flat	H-51
2 1/16	3 3/16	7/8	3/8	Grooved	MS-26
2 1/16	3 11/32	13/16	5/16	Flat	FT-26
2 1/16	3 11/32	13/16	5/16	Grooved	GT-26
2 1/16	3 11/32	13/16	5/16	Banded	D-26
2 1/16	3 11/32	7/8	3/8	Banded	B-26
2 1/16	3 11/32	7/8	3/8	Grooved	C-26
2 1/8	3 3/16	11/16	9/32	Grooved	XW-2 1/8
2 1/8	3 7/32	7/8	9/32	Grooved	4317
2 1/8	3 9/16	7/8	3/8	Grooved	MS-27
2 1/8	3 19/32	13/16	3/8	Flat	FT-27
2 1/8	3 19/32	13/16	3/8	Grooved	GT-27
2 1/8	3 19/32	13/16	5/16	Banded	D-27
2 1/8	3 19/32	7/8	3/8	Banded	B-27
2 1/8	3 19/32	7/8	3/8	Grooved	C-27
2 3/16	3 5/16	7/8	3/8	Grooved	MS-28
2 3/16	3 19/32	13/16	3/8	Flat	FT-28
2 3/16	3 19/32	13/16	3/8	Grooved	GT-28
2 3/16	3 19/32	13/16	5/16	Banded	D-28
2 3/16	3 19/32	7/8	3/8	Banded	B-28
2 3/16	3 19/32	7/8	3/8	Grooved	C-28
2 1/4	3 1/8	5/8	9/32	Flat	EW-2 1/4
2 1/4	3 5/16	11/16	9/32	Grooved	XW-2 1/4
2 1/4	3 11/32	7/8	9/32	Grooved	4318
2 1/4	3 7/16	7/8	3/8	Grooved	MS-29
2 1/4	3 23/32	13/16	3/8	Flat	FT-29
2 1/4	3 23/32	13/16	3/8	Grooved	GT-29
2 1/4	3 23/32	13/16	5/16	Banded	D-29
2 1/4	3 23/32	7/8	3/8	Banded	B-29
2 1/4	3 23/32	7/8	3/8	Grooved	C-29
2 1/4	4 1/8	1 5/8	5/8	Flat	H-52
2 5/16	3 7/16	7/8	3/8	Grooved	MS-30
2 5/16	3 23/32	13/16	3/8	Flat	FT-30
2 5/16	3 23/32	13/16	3/8	Grooved	GT-30
2 5/16	3 23/32	13/16	5/16	Banded	D-30
2 5/16	3 23/32	7/8	3/8	Banded	B-30
2 5/16	3 23/32	7/8	3/8	Grooved	C-30
2 5/16	4 11/32	1	3/8	Flat	H-53
2 3/8	3 7/16	11/16	9/32	Grooved	XW-2 3/8
2 3/8	3 9/16	7/8	9/32	Grooved	MS-31
2 3/8	3 19/32	1	9/32	Grooved	4319
2 3/8	3 27/32	13/16	3/8	Flat	FT-31
2 3/8	3 27/32	13/16	3/8	Grooved	GT-31
2 3/8	3 27/32	13/16	5/16	Banded	D-31
2 3/8	3 27/32	7/8	3/8	Banded	B-31
2 3/8	2 7/8	7/8	3/8	Grooved	C-31
2 7/16	3 15/32	11/16	1/4	Flat	H-54
2 7/16	3 9/16	7/8	3/8	Grooved	MS-32
2 7/16	3 27/32	13/16	3/8	Flat	FT-32
2 7/16	3 27/32	13/16	3/8	Grooved	GT-32
2 7/16	3 27/32	13/16	5/16	Banded	D-32
2 7/16	3 27/32	7/8	3/8	Banded	B-32
2 7/16	3 27/32	7/8	3/8	Grooved	C-32

Bore Inches	Outside Dia. Inches	Width Inches	Ball Size	Type	OBB No.
2 1/2	3 9/16	1 1/16	9/32	Grooved	XW-2 1/2
2 1/2	3 23/32	1	9/32	Grooved	4320
2 1/2	3 31/32	13/16	3/8	Flat	FT-33
2 1/2	3 31/32	13/16	3/8	Grooved	GT-33
2 1/2	3 31/32	13/16	5/16	Banded	D-33
2 1/2	3 31/32	7/8	3/8	Banded	B-33
2 1/2	3 31/32	7/8	3/8	Grooved	C-33
2 1/2	4	1 1/2	1/2	Grooved	MS-33
2 9/16	3 31/32	13/16	3/8	Flat	FT-34
2 9/16	3 31/32	13/16	3/8	Grooved	GT-34
2 9/16	3 31/32	13/16	5/16	Banded	D-34
2 9/16	3 31/32	7/8	3/8	Banded	B-34
2 9/16	3 31/32	7/8	3/8	Grooved	C-34
2 9/16	4	1 1/8	1/2	Grooved	MS-34
2 9/16	4 5/32	1	3/8	Flat	H-55
2 5/8	3 3/4	3/4	5/16	Grooved	XW-2 5/8
2 5/8	3 27/32	1	1	Grooved	4321
2 5/8	4 1/8	1 1/8	1/2	Grooved	MS-35
2 5/8	4 11/32	1	3/8	Flat	FT-35
2 5/8	4 11/32	1	7/16	Grooved	GT-35
2 5/8	4 11/32	1	3/8	Banded	D-35
2 5/8	4 11/32	1 1/8	1/2	Banded	B-35
2 5/8	4 11/32	1 1/8	1/2	Grooved	C-35
2 5/8	5	2 1/4	7/8	Flat	H-56
2 11/16	4 11/32	1	3/8	Flat	FT-36
2 11/16	4 11/32	1	7/16	Grooved	GT-36
2 11/16	4 11/32	1	3/8	Banded	D-36
2 11/16	4 11/32	1 1/8	1/2	Banded	B-36
2 11/16	4 11/32	1 1/8	1/2	Grooved	C-36
2 3/4	3 7/8	3/4	5/16	Grooved	XW-2 3/4
2 3/4	4 1/4	1	1	Grooved	4322
2 3/4	4 7/32	1 1/4	1/2	Flat	H-57
2 3/4	4 1/4	1 1/8	1/2	Grooved	MS-36
2 3/4	4 15/32	1	3/8	Flat	FT-37
2 3/4	4 15/32	1	1/2	Grooved	GT-37
2 3/4	4 15/32	1	3/8	Banded	D-37
2 3/4	4 15/32	1 1/8	1/2	Banded	B-37
2 3/4	4 15/32	1 1/8	1/2	Grooved	C-37
2 13/16	4 15/32	1	3/8	Flat	FT-38
2 13/16	4 15/32	1	1/2	Grooved	GT-38
2 13/16	4 15/32	1	3/8	Banded	D-38
2 13/16	4 15/32	1 1/8	1/2	Banded	B-38
2 13/16	4 15/32	1 1/8	1/2	Grooved	C-38
2 7/8	4	3/4	5/16	Grooved	XW-2 7/8
2 7/8	4 19/32	1	3/8	Flat	FT-39
2 7/8	4 19/32	1	1/2	Grooved	GT-39
2 15/16	4 7/16	1 1/8	1/2	Grooved	MS-37
2 15/16	4 19/32	1	3/8	Flat	FT-40
2 15/16	4 19/32	1	1/2	Grooved	GT-40
2 15/16	4 19/32	1	3/8	Banded	D-39
2 15/16	4 19/32	1 1/8	1/2	Banded	B-39
2 15/16	4 19/32	1 1/8	1/2	Grooved	C-39
3	4 1/8	3/4	5/16	Grooved	XW-3
3	4 3/8	1 1/8	1/2	Grooved	4324
3	4 1/2	1 1/8	1/2	Grooved	MS-38
3	4 23/32	1	3/8	Flat	FT-41
3	4 23/32	1	1/2	Grooved	GT-41
3	4 23/32	1	3/8	Banded	D-40
3	4 23/32	1 1/8	1/2	Banded	B-40
3	4 23/32	1 1/8	1/2	Grooved	C-40
3	5	1 1/4	1/2	Flat	H-58
3	5 1/2	1 1/2	5/8	Flat	H-59
3	7	1 3/4	3/4	Flat	H-60

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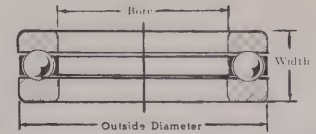
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OBB PRECISION BALL THRUST BEARINGS—CONT'D

INCH DIMENSIONS

(Continued From Previous Page)

PROGRESSIVE LISTING ACCORDING TO BORE



Bore Inches	Outside Dia. Inches	Width Inches	Ball Size	Type	OBB No.
3 ¹ / ₁₆	4 ²³ / ₃₂	1	3 ³ / ₈	Flat	FT-42
*3 ¹ / ₁₆	4 ²³ / ₃₂	1	1 ¹ / ₂	Grooved	GT-42
3 ¹ / ₈	4 ¹ / ₄	3 ³ / ₄	5 ¹ / ₁₆	Grooved	XW-3 ¹ / ₈
3 ¹ / ₈	4 ⁵ / ₈	1 ¹ / ₈	1 ¹ / ₂	Grooved	MS-39
3 ¹ / ₄	4 ³ / ₈	3 ³ / ₄	5 ¹ / ₁₆	Grooved	XW-3 ¹ / ₄
3 ¹ / ₄	4 ³ / ₄	1 ¹ / ₈	1 ¹ / ₂	Grooved	MS-40
3 ¹ / ₄	4 ¹³ / ₁₆	1 ¹ / ₄		Grooved	4326
3 ¹ / ₄	4 ³¹ / ₃₂	1	3 ³ / ₈	Flat	FT-43
3 ¹ / ₄	4 ³¹ / ₃₂	1	9 ¹ / ₁₆	Grooved	GT-43
3 ¹ / ₄	4 ³¹ / ₃₂	1	3 ³ / ₈	Banded	D-41
3 ¹ / ₄	4 ³¹ / ₃₂	1 ¹ / ₈	1 ¹ / ₂	Banded	B-41
3 ¹ / ₄	4 ³¹ / ₃₂	1 ¹ / ₈	1 ¹ / ₂	Grooved	C-41
3 ³ / ₈	4 ¹ / ₂	3 ³ / ₄	5 ¹ / ₁₆	Grooved	XW-3 ³ / ₈
3 ³ / ₈	4 ⁷ / ₈	1 ¹ / ₈	1 ¹ / ₂	Grooved	MS-41
3 ³ / ₈	5 ¹ / ₄	1 ³ / ₈	5 ⁵ / ₈	Flat	H-61
3 ¹ / ₂	4 ⁵ / ₈	3 ³ / ₄	5 ¹ / ₁₆	Grooved	XW-3 ¹ / ₂
3 ¹ / ₂	5	1 ¹ / ₈	1 ¹ / ₂	Grooved	MS-42
3 ¹ / ₂	5 ¹ / ₁₆	1 ¹ / ₄		Grooved	4328
3 ¹ / ₂	5 ¹ / ₃₂	1	3 ³ / ₈	Flat	FT-44
3 ¹ / ₂	5 ¹ / ₃₂	1	1 ¹ / ₂	Grooved	GT-44
3 ¹ / ₂	5 ¹ / ₃₂	1	3 ³ / ₈	Banded	D-42
3 ¹ / ₂	5 ¹ / ₃₂	1 ¹ / ₈	1 ¹ / ₂	Banded	B-42
3 ¹ / ₂	5 ¹ / ₃₂	1 ¹ / ₈	1 ¹ / ₂	Grooved	C-42
3 ¹ / ₂	8 ¹ / ₂	2 ¹ / ₂	1	Flat	H-62
3 ¹ / ₂	6	1 ¹ / ₄	1 ¹ / ₂	Flat	H-63
3 ⁵ / ₈	4 ³ / ₄	3 ³ / ₄	5 ¹ / ₁₆	Grooved	XW-3 ⁵ / ₈
3 ⁵ / ₈	5 ⁵ / ₈	1 ³ / ₈	5 ⁵ / ₈	Grooved	MS-43
3 ³ / ₄	4 ⁷ / ₈	3 ³ / ₄	5 ¹ / ₁₆	Grooved	XW-3 ³ / ₄
3 ³ / ₄	5 ¹ / ₄	1 ¹ / ₈	7 ¹ / ₁₆	Flat	H-69
3 ³ / ₄	5 ⁹ / ₁₆	1 ¹ / ₄		Grooved	4330
3 ³ / ₄	5 ¹ / ₂	1 ³ / ₁₆	5 ¹ / ₁₆	Flat	H-64
3 ³ / ₄	5 ³ / ₄	1 ³ / ₈	5 ⁵ / ₈	Grooved	MS-44
3 ³ / ₄	6 ¹ / ₈	1 ³ / ₄	3 ³ / ₄	Flat	H-65
3 ¹³ / ₁₆	5 ¹ / ₁₆	1 ¹³ / ₁₆	5 ¹ / ₁₆	Flat	H-66
3 ¹³ / ₁₆	5 ¹ / ₁₆	1 ¹ / ₄	1 ¹ / ₂	Flat	H-67
3 ¹³ / ₁₆	5 ⁷ / ₈	1 ¹³ / ₁₆	5 ¹ / ₁₆	Flat	H-68
3 ⁷ / ₈	5	3 ³ / ₄	5 ¹ / ₁₆	Grooved	XW-3 ⁷ / ₈
3 ⁷ / ₈	5 ⁷ / ₈	1 ³ / ₈	5 ⁵ / ₈	Grooved	MS-45
3 ³¹ / ₃₂	6 ¹ / ₁₆	1 ³ / ₄	3 ³ / ₄	Flat	H-70
3 ³¹ / ₃₂	6 ¹ / ₂	1	3 ³ / ₈	Flat	H-71
3 ³¹ / ₃₂	7 ³ / ₄	1 ³ / ₄	5 ⁵ / ₈	Flat	H-72
4	5 ¹ / ₄	7 ⁵ / ₈	3 ³ / ₈	Grooved	XW-4
*4	5 ¹³ / ₁₆	1 ³ / ₈		Grooved	4332
4	6	1 ³ / ₈	5 ⁵ / ₈	Grooved	MS-46
4 ¹ / ₈	6 ¹ / ₈	1 ³ / ₈	5 ⁵ / ₈	Grooved	MS-47
4 ¹ / ₄	5 ¹ / ₂	7 ⁵ / ₈	3 ³ / ₈	Grooved	XW-4 ¹ / ₄
4 ¹ / ₄	6 ¹ / ₄	1 ³ / ₈	5 ⁵ / ₈	Grooved	MS-48
4 ³ / ₈	6 ³ / ₈	1 ³ / ₈	5 ⁵ / ₈	Grooved	MS-49
4 ¹ / ₂	5 ³ / ₄	1	3 ³ / ₈	Grooved	XW-4 ¹ / ₂
4 ¹ / ₂	5 ¹³ / ₁₆	1 ¹ / ₂	1 ¹ / ₂	Flat	H-73
4 ¹ / ₂	6 ⁹ / ₁₆	1 ³ / ₄		Grooved	4336
4 ¹ / ₂	6 ³ / ₄	1 ⁵ / ₈	3 ³ / ₄	Grooved	MS-50
4 ⁵ / ₈	6 ⁷ / ₈	1 ⁵ / ₈	3 ³ / ₄	Grooved	MS-51
4 ³ / ₄	6	1	3 ³ / ₈	Grooved	XW-4 ³ / ₄
4 ³ / ₄	7	1 ⁵ / ₈	3 ³ / ₄	Grooved	MS-52

Bore Inches	Outside Dia. Inches	Width Inches	Ball Size	Type	OBB No.
4 ⁷ / ₈	7 ¹ / ₈	1 ⁵ / ₈	3 ³ / ₄	Grooved	MS-53
5	6 ¹ / ₂	1 ¹ / ₈	7 ¹ / ₁₆	Grooved	XW-5
5	7 ¹ / ₄	1 ⁵ / ₈	3 ³ / ₄	Grooved	MS-54
5	7 ⁵ / ₁₆	2		Grooved	4340
5 ¹ / ₈	7 ³ / ₈	1 ⁵ / ₈	3 ³ / ₄	Grooved	MS-55
5 ¹ / ₄	6 ³ / ₄	1 ¹ / ₈	7 ¹ / ₁₆	Grooved	XW-5 ¹ / ₄
5 ¹ / ₄	7 ¹ / ₂	1 ⁵ / ₈	3 ³ / ₄	Grooved	MS-56
5 ¹ / ₄	8 ⁹ / ₁₆	2 ¹ / ₄	7 ⁷ / ₈	Flat	H-74
5 ³ / ₈	7 ⁵ / ₈	1 ⁵ / ₈	3 ³ / ₄	Grooved	MS-57
5 ¹ / ₂	7	1 ¹ / ₈	7 ¹ / ₁₆	Grooved	XW-5 ¹ / ₂
5 ¹ / ₂	8 ¹ / ₁₆	2 ⁵ / ₁₆		Grooved	4344
5 ¹ / ₂	8 ¹ / ₄	1 ⁷ / ₈	7 ⁷ / ₈	Grooved	MS-58
5 ⁵ / ₈	8 ³ / ₈	1 ⁷ / ₈	7 ⁷ / ₈	Grooved	MS-59
5 ³ / ₄	7 ¹ / ₄	1 ⁷ / ₈	7 ¹ / ₁₆	Grooved	XW-5 ³ / ₄
5 ³ / ₄	7 ¹ / ₄	1 ⁷ / ₈	7 ¹ / ₁₆	Grooved	4-3040
5 ³ / ₄	8 ¹ / ₂	1 ⁷ / ₈	7 ⁷ / ₈	Grooved	MS-60
5 ⁷ / ₈	8 ⁵ / ₈	1 ⁷ / ₈	7 ⁷ / ₈	Grooved	MS-61
6	7 ⁵ / ₈	1 ¹ / ₄	1 ¹ / ₂	Grooved	XW-6
6	8 ¹¹ / ₁₆	2 ⁵ / ₈		Grooved	4348
6	8 ³ / ₄	1 ⁷ / ₈	7 ⁷ / ₈	Grooved	MS-62
6 ¹ / ₈	8 ⁷ / ₈	1 ⁷ / ₈	7 ⁷ / ₈	Grooved	MS-63
6 ¹ / ₄	9	1 ⁷ / ₈	7 ⁷ / ₈	Grooved	MS-64
6 ³ / ₈	9 ¹ / ₈	1 ⁷ / ₈	7 ⁷ / ₈	Grooved	MS-65
6 ¹ / ₂	8 ¹ / ₈	1 ¹ / ₄	1 ¹ / ₂	Grooved	XW-6 ¹ / ₂
6 ¹ / ₂	9 ¹ / ₂	2 ¹ / ₄	1	Grooved	MS-66
6 ⁵ / ₈	9 ⁵ / ₈	2 ¹ / ₄	1	Grooved	MS-67
6 ³ / ₄	9 ³ / ₄	2 ¹ / ₄	1	Grooved	MS-68
6 ⁷ / ₈	9 ⁷ / ₈	2 ¹ / ₄	1	Grooved	MS-69
6 ¹⁵ / ₁₆	10 ¹ / ₂	1	3 ³ / ₈	Flat	H-75
7	8 ³ / ₄	1 ³ / ₈	9 ⁹ / ₁₆	Grooved	XW-7
7	10	2 ¹ / ₄	1	Grooved	MS-70
7 ¹ / ₈	10 ¹ / ₈	2 ¹ / ₄	1	Grooved	MS-71
7 ¹ / ₄	10 ¹ / ₄	2 ¹ / ₄	1	Grooved	MS-72
7 ³ / ₈	10 ³ / ₈	2 ¹ / ₄	1	Grooved	MS-73
7 ¹ / ₂	9 ¹ / ₄	1 ³ / ₈	9 ⁹ / ₁₆	Grooved	XW-7 ¹ / ₂
7 ¹ / ₂	11 ¹ / ₂	2 ¹ / ₂	1	Flat	H-76
8	10	1 ¹ / ₂	5 ⁵ / ₈	Grooved	XW-8
8 ¹ / ₂	10 ¹ / ₂	1 ¹ / ₂	5 ⁵ / ₈	Grooved	XW-8 ¹ / ₂
8 ³ / ₄	11	1 ³ / ₄	3 ³ / ₄	Flat	H-77
9	11 ¹ / ₄	1 ⁷ / ₈	3 ³ / ₄	Grooved	XW-9
*9 ¹ / ₂	11 ³ / ₄	1 ⁷ / ₈	3 ³ / ₄	Grooved	XW-9 ¹ / ₂
10	12 ¹ / ₂	2 ¹ / ₈	7 ⁷ / ₈	Grooved	XW-10
*10 ¹ / ₂	13	2 ¹ / ₈	7 ⁷ / ₈	Grooved	XW-10 ¹ / ₂
*11	13 ³ / ₄	2 ³ / ₈	15 ¹⁵ / ₁₆	Grooved	XW-11
*11 ¹ / ₂	14 ¹ / ₄	2 ³ / ₈	15 ¹⁵ / ₁₆	Grooved	XW-11 ¹ / ₂
*12	15	2 ¹ / ₂	1	Grooved	XW-12
*12 ¹ / ₂	15 ¹ / ₂	2 ³ / ₈	1	Grooved	XW-12 ¹ / ₂
*13	16 ¹ / ₄	2 ³ / ₄	1 ¹ / ₁₆	Grooved	XW-13
*13 ¹ / ₂	16 ³ / ₄	2 ³ / ₄	1 ¹ / ₈	Grooved	XW-13 ¹ / ₂
*14	17 ¹ / ₂	3	1 ³ / ₁₆	Grooved	XW-14
*14 ¹ / ₂	18	3 ¹ / ₈	1 ¹ / ₄	Grooved	XW-14 ¹ / ₂
*15	18 ³ / ₄	3 ³ / ₄	1 ¹ / ₄	Grooved	XW-15
*15 ¹ / ₂	19 ¹ / ₄	3 ³ / ₈	1 ³ / ₁₆	Grooved	XW-15 ¹ / ₂
*16	20	3 ¹ / ₂	1 ³ / ₈	Grooved	XW-16
*16 ¹ / ₂	20 ¹ / ₂	3 ³ / ₈	1 ³ / ₈	Grooved	XW-16 ¹ / ₂
*17	21 ¹ / ₄	3 ³ / ₄	1 ⁷ / ₁₆	Grooved	XW-17
*17 ¹ / ₂	21 ³ / ₄	3 ³ / ₈	1 ¹ / ₂	Grooved	XW-17 ¹ / ₂
*18	22 ¹ / ₂	4	1 ¹ / ₂	Grooved	XW-18
*18 ¹ / ₂	23	4 ¹ / ₈	1 ¹ / ₂	Grooved	XW-18 ¹ / ₂
*19	23 ³ / ₄	4 ¹ / ₄	1 ⁵ / ₈	Grooved	XW-19
*19 ¹ / ₂	24 ¹ / ₄	4 ³ / ₈	1 ⁵ / ₈	Grooved	XW-19 ¹ / ₂
*20	24 ³ / ₄	4 ¹ / ₂	1 ⁵ / ₈	Grooved	XW-20

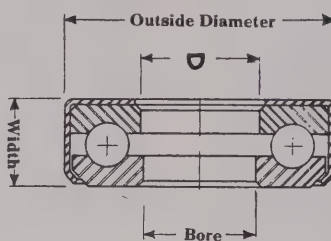
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*Consult for availability.

Progressive Listing Completed

OBB BALL THRUST BEARINGS

UT Series BANDED—UNGROUND COINED RACEWAYS

OBB No.	Bore	Clearance Dia. D	Outside Dia.	Width
UT- 1	$\frac{1}{4}$	$\frac{9}{32}$	$\frac{27}{32}$	$\frac{21}{64}$
UT- 2	$\frac{3}{8}$	$\frac{13}{32}$	$\frac{13}{64}$	$\frac{23}{64}$
UT- 3	$\frac{13}{32}$	$\frac{7}{16}$	$\frac{13}{64}$	$\frac{23}{64}$
UT- 4	$\frac{7}{16}$	$\frac{15}{32}$	$\frac{13}{64}$	$\frac{23}{64}$
UT- 5	$\frac{29}{64}$	$\frac{31}{64}$	$\frac{55}{64}$	$\frac{9}{32}$
UT- 6	$\frac{1}{2}$	$\frac{17}{32}$	$\frac{117}{64}$	$\frac{7}{16}$
UT- 7	$\frac{1}{2}$	$\frac{17}{32}$	1	$\frac{11}{32}$
UT- 8	$\frac{9}{16}$	$\frac{19}{32}$	$\frac{111}{32}$	$\frac{7}{16}$
UT- 9	$\frac{5}{8}$	$\frac{21}{32}$	$\frac{11}{8}$	$\frac{11}{32}$
UT-10	$\frac{5}{8}$	$\frac{21}{32}$	$\frac{127}{64}$	$\frac{29}{64}$
UT-11	$\frac{3}{4}$	$\frac{25}{32}$	$\frac{121}{32}$	$\frac{35}{64}$
UT-12	$\frac{53}{64}$	$\frac{55}{64}$	1.6650	$\frac{17}{32}$
UT-13	$\frac{7}{8}$	$\frac{29}{32}$	$\frac{157}{64}$	$\frac{19}{32}$
UT-14	$\frac{63}{64}$	$\frac{1}{4}$	$\frac{13}{4}$	$\frac{5}{8}$



OBB No.	Bore	Clearance Dia. D	Outside Dia.	Width
UT-15	1	$\frac{11}{32}$	$\frac{21}{64}$	$\frac{41}{64}$
UT-16	1	$\frac{11}{32}$	$\frac{131}{32}$	$\frac{5}{8}$
UT-17	$\frac{11}{64}$	$\frac{13}{64}$	$\frac{13}{4}$	$\frac{5}{8}$
UT-18	$\frac{11}{16}$	$\frac{13}{32}$	$\frac{131}{32}$	$\frac{5}{8}$
UT-19	$\frac{15}{64}$	$\frac{17}{64}$	2	$\frac{5}{8}$
UT-20	$\frac{11}{8}$	$\frac{15}{32}$	$\frac{225}{64}$	$\frac{11}{16}$
UT-21	$\frac{11}{8}$	$\frac{15}{32}$	$\frac{23}{32}$	$\frac{5}{8}$
UT-22	$\frac{13}{16}$	$\frac{17}{32}$	$\frac{23}{32}$	$\frac{5}{8}$
UT-23	$\frac{1}{4}$	$\frac{19}{32}$	$\frac{233}{64}$	$\frac{45}{64}$
UT-24	$\frac{1}{4}$	$\frac{19}{32}$	$\frac{211}{32}$	$\frac{5}{8}$
UT-25	$\frac{15}{16}$	$\frac{111}{32}$	$\frac{211}{32}$	$\frac{5}{8}$
UT-26	$\frac{13}{8}$	$\frac{113}{32}$	$\frac{215}{32}$	$\frac{5}{8}$
UT-27	$\frac{17}{16}$	$\frac{115}{32}$	$\frac{215}{32}$	$\frac{5}{8}$
UT-28	$\frac{11}{2}$	$\frac{117}{32}$	$\frac{219}{32}$	$\frac{5}{8}$

HARDENED AND GROUND STEEL WASHERS

"FW" SERIES

Bores and O.D.'s NOT GROUND

Faces ground to a tolerance of $\pm .000$

$-.005$



"W" SERIES

Bore, O. D. and all surfaces GROUND

Washer No.	A Bore	B Outside Dia.	H Thickness
FW-103	.1875	.375	.0625
FW-104	.1875	.375	.0937
FW-105	.250	.500	.0625
FW-106	.250	.500	.0937
FW-107	.3125	.625	.0625
FW-108	.3125	.625	.1250
FW-109	.375	.625	.0625
FW-110	.375	.625	.1250
FW-111	.4375	.875	.0625
FW-113	.500	.750	.0625
FW-115	.500	1.125	.0625
FW-116	.500	1.125	.1562
FW-117	.500	1.250	.1875
FW-118	.5625	1.375	.0937
FW-122	.625	1.250	.0937
FW-125	.625	1.50	.0937
FW-128	.750	1.00	.0937
FW-130	.750	1.3125	.0937
FW-132	.750	1.625	.1250
FW-133	.750	1.625	.1875
FW-136	.875	1.1875	.0937
FW-138	.875	2.00	.1250
FW-143	1.00	1.5625	.1875
FW-154	1.250	2.00	.1406

Washer Number	A Bore Diameter	A Tolerance	B Outside Diameter $\pm .000 \text{ } -.002$	H Height $\pm \text{ or } -.002$
W-1	$\frac{1}{8}$	$+.004 \text{ } -.006$	$\frac{17}{32}$	.1875
W-2	$\frac{3}{16}$	$+.004 \text{ } -.006$	$\frac{17}{32}$	.1875
W-3	$\frac{5}{8}$	$+.004 \text{ } -.006$	$\frac{111}{32}$	.1875
W-4	$\frac{11}{16}$	$+.004 \text{ } -.006$	$\frac{111}{32}$	.1875
W-5	$\frac{3}{4}$	$+.004 \text{ } -.006$	$\frac{115}{32}$	.1875
W-6	$\frac{13}{16}$	$+.004 \text{ } -.006$	$\frac{115}{32}$	.1875
W-7	$\frac{7}{8}$	$+.004 \text{ } -.006$	$\frac{127}{32}$	.1875
W-8	$\frac{15}{16}$	$+.004 \text{ } -.006$	$\frac{127}{32}$	.1875
W-9	1	$+.005 \text{ } -.007$	$\frac{131}{32}$	.1875
W-10	$\frac{11}{16}$	$+.005 \text{ } -.007$	$\frac{131}{32}$	.1875
W-11	$\frac{11}{8}$	$+.005 \text{ } -.007$	$\frac{23}{32}$	.1875
W-12	$\frac{11}{16}$	$+.005 \text{ } -.007$	$\frac{23}{32}$	.1875
W-13	$\frac{11}{4}$	$+.005 \text{ } -.007$	$\frac{211}{32}$	.1875
W-14	$\frac{15}{16}$	$+.005 \text{ } -.007$	$\frac{211}{32}$	.1875
W-15	$\frac{13}{8}$	$+.005 \text{ } -.007$	$\frac{215}{32}$	.1875
W-16	$\frac{17}{16}$	$+.005 \text{ } -.007$	$\frac{215}{32}$	.1875
W-17	$\frac{11}{2}$	$+.005 \text{ } -.007$	$\frac{219}{32}$	.1875
W-18	$\frac{15}{16}$	$+.005 \text{ } -.007$	$\frac{219}{32}$	.1875
W-19	$\frac{15}{8}$	$+.005 \text{ } -.007$	$\frac{231}{32}$	.2500
W-20	$\frac{111}{16}$	$+.005 \text{ } -.007$	$\frac{231}{32}$	.2500
W-21	$\frac{13}{4}$	$+.005 \text{ } -.007$	$\frac{33}{32}$	.2500
W-22	$\frac{113}{16}$	$+.005 \text{ } -.007$	$\frac{33}{32}$	.2500
W-23	$\frac{17}{8}$	$+.005 \text{ } -.007$	$\frac{37}{32}$	.2500
W-24	$\frac{115}{16}$	$+.005 \text{ } -.007$	$\frac{37}{32}$	.2500
W-25	2	$+.006 \text{ } -.008$	$\frac{311}{32}$	.2500
W-26	$\frac{21}{16}$	$+.006 \text{ } -.008$	$\frac{311}{32}$	.2500
W-27	$\frac{21}{8}$	$+.006 \text{ } -.008$	$\frac{319}{32}$	.2500
W-28	$\frac{25}{16}$	$+.006 \text{ } -.008$	$\frac{319}{32}$	.2500
W-29	$\frac{21}{4}$	$+.006 \text{ } -.008$	$\frac{323}{32}$	.2500
W-30	$\frac{25}{16}$	$+.006 \text{ } -.008$	$\frac{323}{32}$	.2500
W-31	$\frac{23}{8}$	$+.006 \text{ } -.008$	$\frac{327}{32}$	.2500
W-32	$\frac{21}{16}$	$+.006 \text{ } -.008$	$\frac{327}{32}$	.2500
W-33	$\frac{21}{2}$	$+.006 \text{ } -.008$	$\frac{331}{32}$	.2500
W-37	$\frac{23}{4}$	$+.006 \text{ } -.008$	$\frac{415}{32}$	.3125
W-40	$\frac{215}{16}$	$+.006 \text{ } -.008$	$\frac{419}{32}$	.3125
W-41	3	$+.006 \text{ } -.008$	$\frac{423}{32}$	.3125
W-43	$\frac{31}{4}$	$+.008 \text{ } -.010$	$\frac{431}{32}$	.3125
W-45	$\frac{31}{2}$	$+.008 \text{ } -.010$	$\frac{517}{32}$	.3125

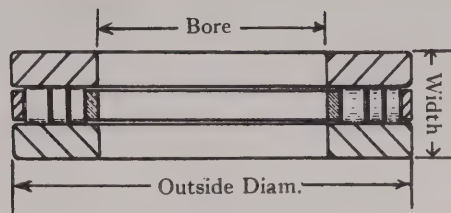
Above washers are made for a slip fit on shaft, are accurately ground on surfaces and inside and outside diameters.

OBB PRECISION ROLLER THRUST BEARINGS

OPEN TYPE

Roller Thrust Bearings have the advantage of a considerably greater load carrying capacity than a ball thrust bearing of the same overall dimensions.

The thrust rings and rollers are made from high carbon, chrome steel, the roll retainer from aluminum bronze.



TYPE E — LIGHT SERIES

Bearing No.	Inside Dia. Inches	Outside Dia. Inches	Width Inches	Load Rating At 100 R.P.M.	Dia. Rollers Inches
E-18	$\frac{7}{8}$	$1\frac{17}{32}$	$\frac{5}{8}$	2440	$\frac{1}{4}$
E-19	$1\frac{15}{16}$	$1\frac{17}{32}$	$\frac{5}{8}$	2440	$\frac{1}{4}$
E-20	1	$1\frac{18}{32}$	$\frac{5}{8}$	3020	$\frac{1}{4}$
E-21	$1\frac{1}{16}$	$1\frac{18}{32}$	$\frac{5}{8}$	3020	$\frac{1}{4}$
E-22	$1\frac{1}{8}$	$2\frac{3}{32}$	$\frac{5}{8}$	3420	$\frac{1}{4}$
E-23	$1\frac{3}{16}$	$2\frac{3}{32}$	$\frac{5}{8}$	3420	$\frac{1}{4}$
E-24	$1\frac{1}{4}$	$2\frac{11}{32}$	$\frac{5}{8}$	3740	$\frac{1}{4}$
E-25	$1\frac{5}{16}$	$2\frac{11}{32}$	$\frac{5}{8}$	3740	$\frac{1}{4}$
E-26	$1\frac{3}{8}$	$2\frac{15}{32}$	$\frac{5}{8}$	4080	$\frac{1}{4}$
E-27	$1\frac{7}{16}$	$2\frac{15}{32}$	$\frac{5}{8}$	4080	$\frac{1}{4}$
E-28	$1\frac{1}{2}$	$2\frac{19}{32}$	$\frac{5}{8}$	4330	$\frac{1}{4}$
E-29	$1\frac{9}{16}$	$2\frac{19}{32}$	$\frac{5}{8}$	4330	$\frac{1}{4}$
E-30	$1\frac{5}{8}$	$2\frac{31}{32}$	$\frac{13}{16}$	6040	$\frac{5}{16}$
E-31	$1\frac{11}{16}$	$2\frac{31}{32}$	$\frac{13}{16}$	6040	$\frac{5}{16}$
E-32	$1\frac{3}{4}$	$3\frac{3}{32}$	$\frac{13}{16}$	5830	$\frac{5}{16}$
E-33	$1\frac{13}{16}$	$3\frac{3}{32}$	$\frac{13}{16}$	5830	$\frac{5}{16}$
E-34	$1\frac{7}{8}$	$3\frac{7}{32}$	$\frac{13}{16}$	5760	$\frac{5}{16}$
E-35	$1\frac{15}{16}$	$3\frac{7}{32}$	$\frac{13}{16}$	5760	$\frac{5}{16}$
E-36	2	$3\frac{11}{32}$	$\frac{13}{16}$	5650	$\frac{5}{16}$
E-37	$2\frac{1}{8}$	$3\frac{15}{32}$	$\frac{13}{16}$	8200	$\frac{5}{16}$
E-37s	$2\frac{3}{16}$	$3\frac{19}{32}$	$\frac{13}{16}$	8200	$\frac{5}{16}$
E-38	$2\frac{1}{4}$	$3\frac{23}{32}$	$\frac{13}{16}$	8780	$\frac{5}{16}$
E-39	$2\frac{3}{8}$	$3\frac{27}{32}$	$\frac{13}{16}$	8500	$\frac{5}{16}$
E-39s	$2\frac{7}{16}$	$3\frac{27}{32}$	$\frac{13}{16}$	8500	$\frac{5}{16}$
E-40	$2\frac{1}{2}$	$3\frac{31}{32}$	$\frac{13}{16}$	9000	$\frac{3}{8}$
E-41	$2\frac{5}{8}$	$4\frac{11}{32}$	1	9000	$\frac{3}{8}$
E-42	$2\frac{3}{4}$	$4\frac{15}{32}$	1	11850	$\frac{3}{8}$
E-43	3	$4\frac{23}{32}$	1	12000	$\frac{3}{8}$
E-44	$3\frac{1}{4}$	$4\frac{31}{32}$	1	11400	$\frac{3}{8}$
E-44s	$3\frac{1}{2}$	$5\frac{7}{32}$	1	12900	$\frac{3}{8}$
E-45	$3\frac{1}{2}$	$5\frac{7}{32}$	1	12900	$\frac{3}{8}$
E-45s	$3\frac{15}{16}$	$5\frac{7}{32}$	1	12900	$\frac{3}{8}$

TYPE E — HEAVY SERIES

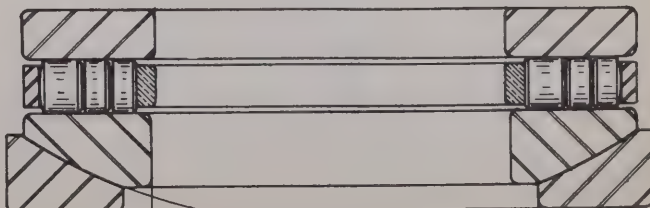
Bearing No.	Inside Dia. Inches	Outside Dia. Inches	Width Inches	Load Rating At 100 R.P.M.	Dia. Rollers Inches
E-46	2	6	$1\frac{3}{8}$	36000	$\frac{1}{2}$
E-47	2	7	$1\frac{3}{8}$	48300	$\frac{1}{2}$
E-48	2	8	$1\frac{3}{8}$	65400	$\frac{1}{2}$
E-49	3	6	$1\frac{3}{8}$	29800	$\frac{1}{2}$
E-50	3	7	$1\frac{3}{8}$	43600	$\frac{1}{2}$
E-51	3	8	$1\frac{3}{8}$	55600	$\frac{1}{2}$
E-52	3	9	$1\frac{3}{8}$	67500	$\frac{1}{2}$
E-53	4	7	$1\frac{3}{4}$	34700	$\frac{5}{8}$
E-54	4	8	$1\frac{3}{4}$	54600	$\frac{5}{8}$
E-55	4	9	$1\frac{3}{4}$	69400	$\frac{5}{8}$
E-56	4	10	$1\frac{3}{4}$	89300	$\frac{5}{8}$
E-57	5	8	$1\frac{3}{4}$	40300	$\frac{5}{8}$
E-58	5	9	$1\frac{3}{4}$	63300	$\frac{5}{8}$
E-59	5	10	2	83300	$\frac{3}{4}$
E-60	5	11	2	111600	$\frac{3}{4}$
E-61	5	12	2	136300	$\frac{3}{4}$
E-62	6	9	2	48300	$\frac{3}{4}$
E-63	6	10	2	76000	$\frac{3}{4}$
E-64	6	11	2	100100	$\frac{3}{4}$
E-65	6	12	2	124300	$\frac{3}{4}$
E-66	7	10	2	62400	$\frac{3}{4}$
E-67	7	11	2	85800	$\frac{3}{4}$
E-68	7	12	2	109200	$\frac{3}{4}$
E-69	7	14	3	180300	1
E-70	8	12	3	95200	1
E-71	8	14	3	171300	1
E-72	8	16	3	247400	1
E-73	10	16	3	187200	1
E-74	10	18	$3\frac{3}{4}$	294400	$1\frac{1}{4}$
E-75	10	20	$3\frac{3}{4}$	368000	$1\frac{1}{2}$
E-76	12	18	$3\frac{3}{4}$	233100	$1\frac{1}{4}$
E-77	12	20	$3\frac{3}{4}$	300400	$1\frac{1}{2}$

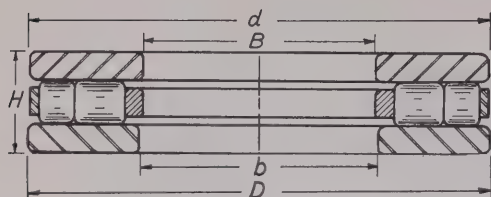
Bearing With Spherical Seat and Aligning Washer

Furnished with Spherical Seat if Desired,

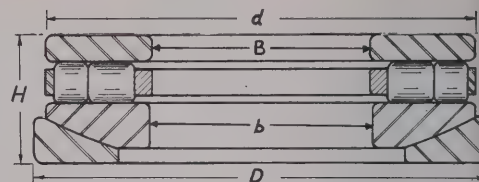
Also Locating Washer—

Data and Prices on Request.



ROLLWAY ROLLER THRUST BEARINGS**Type T****Single Acting**

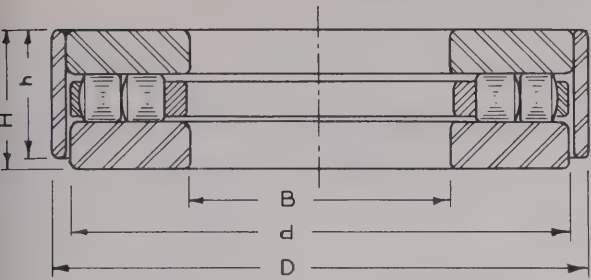
The 600 and 700 series listed below are dimensionally interchangeable with the T-01 to T-74 bearings listed in previous Catalogs.

Type AT

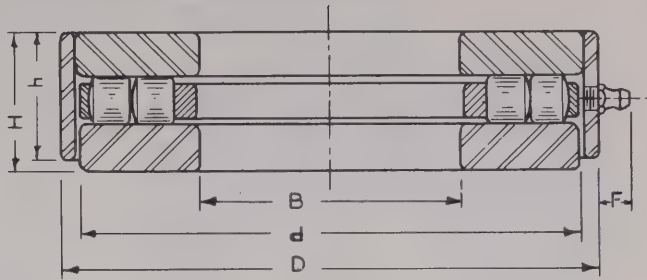
Basic Bearing Number	Bore		Outside Diameter		Height H	Roller Diam.
	B	b	D	d		
	Inches					
T-601	1.000	1.062	2.125	2.062	.812	.375
T-602	1.062	1.125	2.125	2.062	.812	.375
T-603	1.125	1.187	2.250	2.187	.812	.375
T-604	1.187	1.250	2.250	2.187	.812	.375
T-605	1.250	1.312	2.375	2.312	.812	.375
T-606	1.312	1.375	2.375	2.312	.812	.375
T-607	1.375	1.437	2.875	2.812	.812	.375
T-608	1.437	1.500	2.875	2.812	.812	.375
T-609	1.500	1.562	3.000	2.937	.812	.375
T-610	1.562	1.625	3.000	2.937	.812	.375
T-611	1.625	1.687	3.250	3.187	1.000	.500
T-612	1.687	1.750	3.250	3.187	1.000	.500
T-613	1.750	1.812	3.375	3.312	1.000	.500
T-614	1.812	1.875	3.375	3.312	1.000	.500
T-615	1.875	1.937	3.500	3.437	1.000	.500
T-616	1.937	2.000	3.500	3.437	1.000	.500
T-617	2.000	2.062	3.625	3.562	1.000	.500
T-618	2.125	2.187	3.750	3.687	1.000	.500
T-619	2.250	2.312	3.875	3.812	1.000	.500
T-620	2.375	2.437	4.000	3.937	1.000	.500
T-621	2.500	2.562	4.125	4.062	1.000	.500
T-622	2.625	2.687	4.343	4.281	1.000	.500
T-623	2.750	2.812	4.468	4.406	1.000	.500
T-624	3.000	3.062	4.718	4.656	1.000	.500
T-625	3.250	3.312	4.968	4.906	1.000	.500
T-626	3.500	3.562	5.218	5.156	1.000	.500
T-727	2.000	2.062	6.000	5.937	1.375	.625
T-728	2.000	2.062	7.000	6.937	1.375	.625
T-729	2.000	2.062	8.000	7.937	1.375	.625
T-730	3.000	3.062	6.000	5.937	1.375	.625
T-731	3.000	3.062	7.000	6.937	1.375	.625
T-732	3.000	3.062	8.000	7.937	1.375	.625
T-733	3.000	3.062	9.000	8.937	1.375	.625
T-734	4.000	4.062	7.000	6.937	1.750	.750
T-735	4.000	4.062	8.000	7.937	1.750	.750
T-736	4.000	4.062	9.000	8.937	1.750	.750
T-737	4.000	4.062	10.000	9.937	1.750	.750
T-738	5.000	5.062	8.000	7.937	1.750	.750
T-739	5.000	5.062	9.000	8.937	1.750	.750
T-740	5.000	5.062	10.000	9.937	2.000	.875
T-741	5.000	5.062	11.000	10.937	2.000	.875
T-742	5.000	5.062	12.000	11.937	2.000	.875
T-743	6.000	6.062	9.000	8.937	2.000	.875
T-744	6.000	6.062	10.000	9.937	2.000	.875
T-745	6.000	6.062	11.000	10.937	2.000	.875
T-746	6.000	6.062	12.000	11.937	2.000	.875
T-747	7.000	7.093	10.000	9.907	2.000	.875
T-748	7.000	7.093	11.000	10.907	2.000	.875
T-749	7.000	7.093	12.000	11.907	2.000	.875
T-750	7.000	7.093	14.000	13.907	3.000	1.250
T-751	8.000	8.093	12.000	11.907	3.000	1.250
T-752	8.000	8.093	14.000	13.907	3.000	1.250
T-753	8.000	8.093	16.000	15.907	3.000	1.250
T-754	10.000	10.093	16.000	15.907	3.000	1.250
T-755	10.000	10.093	18.000	17.907	3.750	1.500
T-756	10.000	10.093	20.000	19.907	3.750	1.500
T-757	12.000	12.093	18.000	17.907	3.750	1.500
T-758	12.000	12.093	20.000	19.907	4.500	1.750
T-759	12.000	12.093	24.000	23.907	4.500	1.750
T-760	14.000	14.125	20.000	19.875	3.750	1.500
T-761	14.000	14.125	22.000	21.875	3.750	1.500
T-762	14.000	14.125	24.000	23.875	3.750	1.500
T-763	16.000	16.125	22.000	21.875	4.500	1.750
T-764	16.000	16.125	24.000	23.875	4.500	1.750
T-765	16.000	16.125	26.000	25.875	4.500	1.750
T-766	18.000	18.125	26.000	25.875	5.000	2.000
T-767	18.000	18.125	28.000	27.875	5.000	2.000
T-768	18.000	18.125	30.000	29.875	5.500	2.500
T-769	20.000	20.125	28.000	27.875	5.500	2.500
T-770	20.000	20.125	30.000	29.875	5.500	2.500
T-771	20.000	20.125	32.000	31.875	6.000	2.500
T-772	22.000	22.125	30.000	29.875	5.500	2.500
T-773	22.000	22.125	32.000	31.875	5.500	2.500
T-774	22.000	22.125	34.000	33.875	6.000	2.500

Basic Bearing Number	Bore		Outside Diameter		Height H	Roller Diam.
	B	b	D	d		
	Inches					
AT-601	1.000	1.062	2.250	2.062	1.062	.375
AT-602	1.062	1.125	2.250	2.062	1.062	.375
AT-603	1.125	1.187	2.375	2.187	1.062	.375
AT-604	1.187	1.250	2.375	2.187	1.062	.375
AT-605	1.250	1.312	2.500	2.312	1.062	.375
AT-606	1.312	1.375	2.500	2.312	1.062	.375
AT-607	1.375	1.437	3.000	2.812	1.062	.375
AT-608	1.437	1.500	3.000	2.812	1.062	.375
AT-609	1.500	1.562	3.125	2.937	1.062	.375
AT-610	1.562	1.625	3.125	2.937	1.062	.375
AT-611	1.625	1.687	3.375	3.187	1.312	.500
AT-612	1.687	1.750	3.375	3.187	1.312	.500
AT-613	1.750	1.812	3.500	3.312	1.312	.500
AT-614	1.812	1.875	3.500	3.312	1.312	.500
AT-615	1.875	1.937	3.625	3.437	1.312	.500
AT-616	1.937	2.000	3.625	3.437	1.312	.500
AT-617	2.000	2.062	3.750	3.562	1.312	.500
AT-618	2.125	2.187	3.875	3.687	1.312	.500
AT-619	2.250	2.312	4.000	3.812	1.312	.500
AT-620	2.375	2.437	4.125	3.937	1.312	.500
AT-621	2.500	2.562	4.250	4.062	1.312	.500
AT-622	2.625	2.687	4.530	4.281	1.312	.500
AT-623	2.750	2.812	4.655	4.406	1.312	.500
AT-624	3.000	3.062	4.968	4.656	1.312	.500
AT-625	3.250	3.343	5.218	4.906	1.312	.500
AT-626	3.500	3.593	5.468	5.156	1.312	.500
AT-727	2.000	2.062	6.312	5.937	1.812	.625
AT-728	2.000	2.062	7.312	6.937	1.812	.625
AT-729	2.000	2.062	8.312	7.937	1.812	.625
AT-730	3.000	3.062	6.312	5.937	1.812	.625
AT-731	3.000	3.062	7.312	6.937	1.812	.625
AT-732	3.000	3.062	8.312	7.937	1.812	.625
AT-733	3.000	3.062	9.312	8.937	1.812	.625
AT-734	4.000	4.093	7.375	6.937	2.312	.750
AT-735	4.000	4.093	8.375	7.937	2.312	.750
AT-736	4.000	4.093	9.375	8.937	2.312	.750
AT-737	4.000	4.093	10.500	9.937	2.312	.750
AT-738	5.000	5.125	8.500	7.937	2.312	.750
AT-739	5.000	5.125	9.500	8.937	2.312	.750
AT-740	5.000	5.125	10.500	9.937	2.625	.875
AT-741	5.000	5.125	11.500	10.937	2.625	.875
AT-742	5.000	5.125	12.500	11.937	2.625	.875
AT-743	6.000	6.125	9.500	8.937	2.625	.875
AT-744	6.000	6.125	10.500	9.937	2.625	.875
AT-745	6.000	6.125	11.500	10.937	2.625	.875
AT-746	6.000	6.125	12.500	11.937	2.625	.875
AT-747	7.000	7.125	10.500	9.907	2.625	.875
AT-748	7.000	7.125	11.500	10.907	2.625	.875
AT-749	7.000	7.125	12.500	11.907	2.625	.875
AT-750	7.000	7.187	14.750	13.907	4.000	1.250
AT-751	8.000	8.187	12.750	11.907	4.000	1.250
AT-752	8.000	8.187	14.750	13.907	4.000	1.250
AT-753	8.000	8.250	16.875	15.907	4.000	1.250
AT-754	10.000	10.250	16.875	15.907	4.000	1.250
AT-755	10.000	10.250	18.875	17.907	5.000	1.500
AT-756	10.000	10.250	20.875	19.907	5.000	1.500
AT-757	12.000	12.250	18.875	17.907	5.000	1.500
AT-758	12.000	12.250	20.875	19.907	6.000	1.750
AT-759	12.000	12.250	24.875	23.907	6.000	1.750
AT-760	14.000	14.250	20.875	19.875	4.875	1.500
AT-761	14.000	14.250	22.875	21.875	4.875	1.500
AT-762	14.000	14.250	24.875	23.875	4.875	1.500
AT-763	16.000	16.250	22.875	21.875	6.000	1.750
AT-764	16.000	16.250	25.000	23.875	6.000	1.750
AT-765	16.000	16.250	27.000	25.875	6.000	1.750
AT-766	18.000	18.375	27.000	25.875	6.750	2.000
AT-767	18.000	18.375	29.000	27.875	6.750	2.000
AT-768	18.000	18.375	31.000	29.875	7.250	2.500
AT-769	20.000	20.375	29.000	27.875	7.500	2.500
AT-770	20.000	20.375	31.000	29.875	7.500	2.500
AT-771	20.000	20.375	33.000	31.875	8.000	2.500
AT-772	22.000	22.375	31.000	29.875	7.500	2.500
AT-773	22.000	22.375	33.000	31.875	7.500	2.500
AT-774	22.000	22.375	35.000	33.875	8.000	2.500

ROLLWAY CRANE HOOK BEARINGS



TYPE CT



TYPE WCT

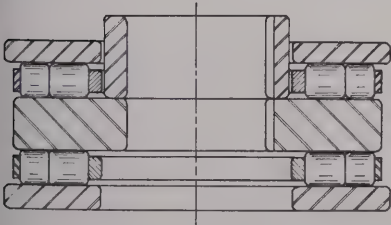
Rollway Bearing Number CT (or) WCT	Shank Dia., C Inch	Bearing Bore, B Inch	Bearing O.D., D		Plate O.D., d Inch	Overall Height, H Inch	Weather-shed Height, h Inch	Bearing Capacity LB.	Nominal Hook Capacity Tons
			CT Inch	WCT† Inch					
11*	1 5/8	1.640	3.093	3.343	2.953	0.812	0.687	19,900	5
16	1 15/16	1.952	3.468	3.593	3.218	0.812	0.687	29,300	5
17*	2	2.015	3.937	4.000	3.600	1.000	0.875	38,600	5
19*	2 1/4	2.265	4.000	4.250	3.860	1.000	0.875	38,600	10
20-C*	2 1/4	2.265	4.250	4.375	3.975	1.000	0.875	46,900	10
20-B	2 5/16	2.327	4.250	4.375	3.975	1.000	0.875	46,900	10
23	2 3/4	2.765	4.750	4.843	4.453	1.000	0.875	49,700	15
24-A*	2 3/4	2.765	4.875	5.156	4.762	1.250	1.125	66,800	15
23-B	2 13/16	2.827	4.750	4.843	4.453	1.000	0.875	49,000	15
27-A*	3 1/4	3.265	6.125	6.250	5.850	1.500	1.375	102,700	20
27-C*	3 1/4	3.265	6.187	6.375	5.968	1.750	1.625	119,900	20
27-B*	3 1/2	3.515	6.156	6.375	5.968	1.625	1.500	115,500	25
28-A*	3 1/2	3.515	6.750	6.937	6.540	1.625	1.500	136,300	25
30-B	3 9/16	3.577	6.375	6.375	5.968	1.375	1.250	115,500	25
34-A*	3 3/4	3.765	7.125	7.250	6.855	1.875	1.750	159,900	30
35-A*	4 1/4	4.265	8.171	8.375	7.968	2.000	1.875	203,900	35
38-A*	4 1/2	4.515	8.125	8.312	7.912	2.000	1.875	215,900	40
39-A*	5	5.015	9.156	9.375	8.968	2.250	2.125	306,400	50
44-A*	5 1/2	5.515	10.500	10.500	10.104	2.500	2.375	326,800	60
45-B	5 9/16	5.577	11.500	11.500	10.968	2.000	1.875	433,000	60
45-A*	6	6.015	11.156	11.375	10.968	3.000	2.750	395,100	75
49-A*	6 13/16	6.827	12.750	12.750	12.340	2.500	2.375	512,200	100
51*	7 7/8	7.890	12.375	12.375	11.907	3.000	2.750	539,800	125
52*	8 1/16	8.452	14.500	14.500	13.907	3.000	2.750	607,200	150
53*	8 7/8	8.890	16.500	16.500	15.907	3.000	2.750	910,700	175
54*	9 5/16	9.327	16.500	16.500	15.907	3.000	2.750	937,800	200
55*	9 5/8	9.640	18.500	18.500	17.907	3.750	3.375	1,318,700	225
56*	10	10.015	20.500	20.500	19.907	3.750	3.375	1,534,900	250

†Dimension F must be added to Brg. O.D. for determining overall O.D. on WCT-Type. F = 1 3/32" (Approx.) for all sizes.
*Bearings indicated by star are normally in production. Check for availability of non-starred bearings, as well as specials not shown.

ROLLWAY ROLLER THRUST BEARINGS

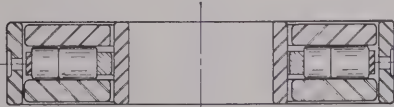
DOUBLE ACTING TYPE

Size data available on request.



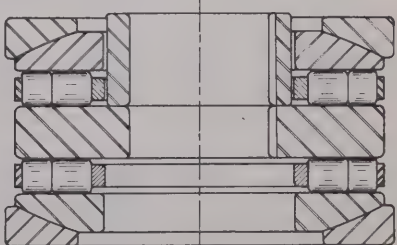
DT TYPE

For applications where thrust may occur in either direction, and where good alignment can be maintained.



SDT TYPE

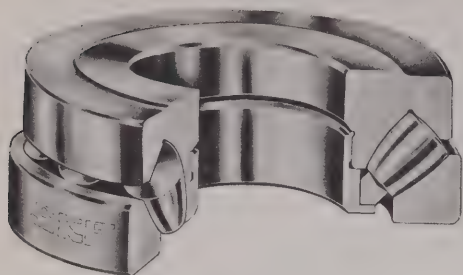
Should not be used where direction of thrust reverses while bearing is running at high speed.



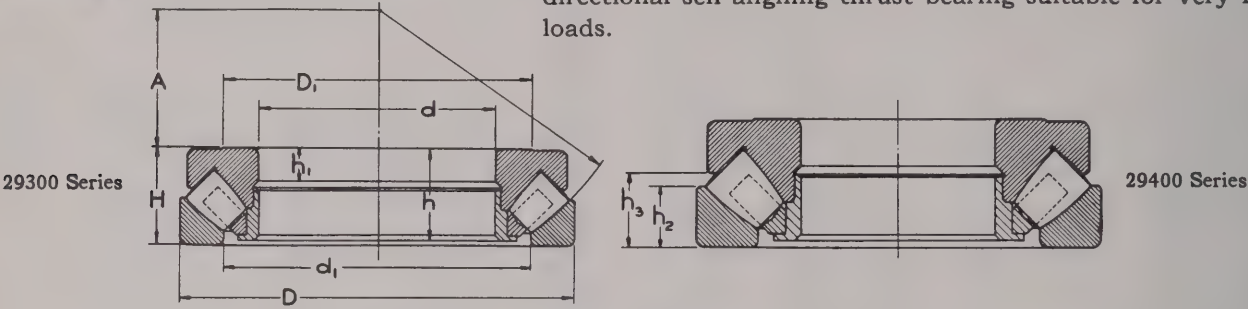
DAT TYPE

For heavy thrust loads in either direction and where alignment is uncertain.

SKF THRUST BEARINGS
SPHERICAL ROLLER SELF ALIGNING TYPE



The Spherical Roller Thrust Bearing has a very high load-carrying capacity for one directional thrust loads or for combined loads where the thrust load predominates. This bearing is completely self-aligning and can operate satisfactorily at high speeds. The bearing design applies the principle of rolling motion and assures extremely efficient fluid lubrication. This combination gives a rugged bearing of great utility and capacity. Two such bearings can be mounted opposed to give a directional self-aligning thrust bearing suitable for very high loads.



29300 SERIES

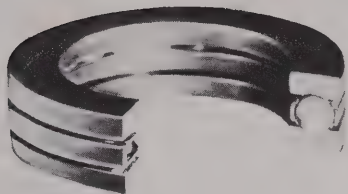
Bearing Number	Nominal Bearing Dimensions												
	d		D		H		d ₁ Inches	D ₁ Inches	h Inches	h ₁ Inches	h ₂ Inches	h ₃ Inches	A Inches
	Mm	Inches	Mm	Inches	Mm	Inches							
29322	110	4.3307	190	7.4803	48	1.890	5.630	5.709	1.791	.630	.917	1.091	2.500
29324	120	4.7244	210	8.2677	54	2.126	6.260	6.299	2.008	.709	1.024	1.220	2.756
29326	130	5.1181	225	8.8583	58	2.283	6.744	6.693	2.165	.748	1.098	1.309	2.972
29330	150	5.9055	250	9.8425	60	2.362	7.638	7.677	2.244	.787	1.142	1.368	3.425
29334	170	6.6929	280	11.0236	67	2.638	8.504	8.661	2.520	.906	1.280	1.526	3.780
29338	190	7.4803	320	12.5984	78	3.071	9.685	9.843	2.913	1.063	1.496	1.784	4.331
29344	220	8.6614	360	14.1732	85	3.346	11.024	11.220	3.189	1.142	1.614	1.940	4.921
29348	240	9.4488	380	14.9606	85	3.346	11.811	11.811	3.189	1.142	1.614	1.942	5.315
29352	260	10.2362	420	16.5354	95	3.740	12.953	12.992	3.583	1.260	1.791	2.140	5.827
29360	300	11.8110	480	18.8976	109	4.291	14.921	14.961	4.134	1.457	1.988	2.397	6.614
29364	320	12.5984	500	19.6850	109	4.291	15.709	15.748	4.134	1.457	2.087	2.478	7.087
29372	360	14.1732	560	22.0472	122	4.803	17.638	17.717	4.606	1.614	2.343	2.774	7.953
29380	400	15.7480	620	24.4094	132	5.197	19.449	19.685	5.000	1.732	2.520	2.992	8.858
29392	460	18.1102	710	27.9528	150	5.906	22.293	22.638	5.669	2.008	2.857	3.406	10.118
293/530	530	20.8661	800	31.4961	160	6.299	25.512	25.591	6.063	2.126	2.992	3.543	11.614

29400 SERIES

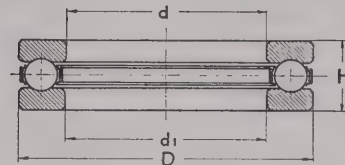
29418	90	3.5433	190	7.4803	60	2.362	5.197	5.315	2.244	.866	1.142	1.358	2.224
29420	100	3.9370	210	8.2677	67	2.638	5.748	5.906	2.520	.945	1.280	1.524	2.461
29422	110	4.3307	230	9.0551	73	2.874	6.378	6.496	2.717	1.024	1.378	1.663	2.717
29424	120	4.7244	250	9.8425	78	3.071	6.850	7.087	2.913	1.142	1.476	1.742	2.933
29426	130	5.1181	270	10.6299	85	3.346	7.441	7.677	3.189	1.220	1.633	1.939	3.189
29430	150	5.9055	300	11.8110	90	3.543	8.405	8.661	3.386	1.260	1.732	2.057	3.622
29434	170	6.6929	340	13.3858	103	4.055	9.567	9.646	3.898	1.457	1.968	2.335	4.094
29438	190	7.4803	380	14.9606	115	4.528	10.669	10.827	4.370	1.614	2.185	2.611	4.606
29440	200	7.8740	400	15.7480	122	4.803	11.254	11.417	4.606	1.693	2.323	2.770	4.803
29444	220	8.6614	420	16.5354	122	4.803	12.106	12.205	4.606	1.693	2.323	2.770	5.236
29452	260	10.2362	480	18.8976	132	5.197	14.055	14.173	5.000	1.890	2.520	2.969	6.063
29460	300	11.8110	540	21.2598	145	5.709	15.827	16.142	5.512	2.047	2.776	3.268	6.890
29468	340	13.3858	620	24.4094	170	6.693	18.189	18.307	6.457	2.402	3.248	3.858	7.913
29476	380	14.9606	670	26.3780	175	6.890	19.842	20.079	6.614	2.480	3.331	3.976	8.740
29488	440	17.3228	780	30.7087	206	8.110	23.150	23.425	7.835	2.913	3.917	4.665	10.118
294/500	500	19.6850	870	34.2520	224	8.819	26.024	26.378	8.504	3.189	4.213	5.020	11.417
29576	380	14.9606	820	32.2835	265	10.433	22.44	22.756	10.078	3.927	5.000	6.004	9.488

* Consult for availability.

SKF BALL THRUST BEARINGS ONE DIRECTION—FLAT SEATS



51100 SERIES — Extra Light



2900 SERIES — Light

Brg. No.	d		d ₁		D		H	
	Mm.	Ins.	Mm.	Ins.	Mm.	Ins.	Mm.	Ins.
51106	30	1.1811	31	1.220	47	1.8504	11	.433
51107	35	1.3780	36	1.417	53	2.0866	12	.472
51108	40	1.5748	42	1.654	60	2.3622	13	.512
51109	45	1.7717	47	1.850	65	2.5591	14	.551
51110	50	1.9685	52	2.047	70	2.7559	14	.551
51111	55	2.1654	57	2.244	78	3.0709	16	.630
51112	60	2.3622	62	2.441	85	3.3465	17	.669
51113	65	2.5591	67	2.638	90	3.5433	18	.709
51114	70	2.7559	72	2.835	95	3.7402	18	.709
51115	75	2.9528	77	3.031	100	3.9370	19	.748
51116	80	3.1496	82	3.228	105	4.1339	19	.748
51117	85	3.3465	88	3.465	110	4.3307	19	.748
51118	90	3.5433	93	3.661	120	4.7244	22	.866
51120	100	3.9370	103	4.055	135	5.3150	25	.984
51122	110	4.3307	113	4.449	145	5.7087	25	.984
51124	120	4.7244	123	4.843	155	6.1024	25	.984
51126	130	5.1181	133	5.236	170	6.6929	30	1.181
51128	140	5.5118	143	5.630	180	7.0866	31	1.220
51130	150	5.9055	153	6.024	190	7.4803	31	1.220
51132	160	6.2992	163	6.417	200	7.8740	31	1.220
51134	170	6.6929	173	6.811	215	8.4646	34	1.339
51136	180	7.0866	183	7.205	225	8.8583	34	1.339
51138	190	7.4803	193	7.598	240	9.4488	37	1.457
51140	200	7.8740	203	7.992	250	9.8425	37	1.457
51144	220	8.6614	223	8.780	270	10.6299	37	1.457
51148	240	9.4488	243	9.567	300	11.8110	45	1.772
51152	260	10.2362	263	10.354	320	12.5984	45	1.772
51156	280	11.0236	283	11.142	350	13.7795	53	2.087

Brg. No.	Bore				Outside Dia.		Width	
	d		d ₁		D		H	
	Mm.	Ins.	Mm.	Ins.	Mm.	Ins.	Mm.	Ins.
2903	18	.7087	18.2	.716	35	1.3780	12	.472
2904	20	.7874	20.2	.794	37	1.4567	12	.472
*2904 1/2	22	.8661	22.2	.873	42	1.6535	14	.551
2905	25	.9843	25.2	.991	45	1.771	14	.551
2906	30	1.1811	30.2	1.188	50	1.968	14	.551
2907	35	1.3780	35.2	1.385	55	2.164	16	.630
2908	40	1.5748	40.2	1.582	60	2.361	16	.630
2909	45	1.7717	45.2	1.779	68	2.676	16	.630
2910	50	1.9685	50.2	1.975	74	2.912	18	.709
2911	55	2.1654	55.2	2.172	78	3.070	18	.709
2912	60	2.3622	60.2	2.369	82	3.227	18	.709
2913	65	2.5591	65.2	2.566	90	3.542	20	.787
2914	70	2.7559	70.2	2.763	95	3.739	20	.787
2915	75	2.9528	75.2	2.960	100	3.936	20	.787
2916	80	3.1496	80.2	3.157	110	4.330	22	.866
2917	85	3.3465	85.2	3.353	115	4.527	22	.866
*2918	90	3.5433	90.2	3.550	120	4.723	22	.866
2919	95	3.7402	95.2	3.748	130	5.118	25	.984
*2920	100	3.9370	100.2	3.944	135	5.314	25	.984
*2921	105	4.1339	105.2	4.142	140	5.512	25	.984
*2922	110	4.3307	110.2	4.331	145	5.707	25	.984
2923	115	4.5276	115.2	4.535	150	5.905	25	.984
2924	120	4.7244	120.2	4.732	160	6.299	27	1.063
2928	140	5.5118	140.3	5.524	185	7.2835	31	1.220

900 SERIES — Medium

Brg. No.	d		d ₁		D		H	
	Mm.	Ins.	Mm.	Ins.	Mm.	Ins.	Mm.	Ins.
902	15	.5906	16	.630	35	1.3780	14	.551
904	20	.7874	21	.827	40	1.5748	14	.551
905	25	.9843	26	1.024	48	1.8898	15.5	.610
906	30	1.1811	31	1.220	53	2.0866	15.5	.610
907	35	1.3780	36	1.417	62	2.4409	18	.709
908	40	1.5748	42	1.654	64	2.5197	18	.709
909	45	1.7717	47	1.850	73	2.8740	22	.866
910	50	1.9685	52	2.047	78	3.0709	22	.866
911	55	2.1654	57	2.244	88	3.4646	24.5	.965
912	60	2.3622	62	2.441	90	3.5433	24.5	.965
913	65	2.5591	67	2.638	100	3.9370	27	1.063
914	70	2.7559	72	2.835	103	4.0591	27	1.063
915	75	2.9528	77	3.031	110	4.3307	27	1.063
916	80	3.1496	82	3.228	115	4.5276	29	1.142
917	85	3.3465	88	3.465	125	4.9213	30.5	1.201
918	90	3.5433	93	3.661	135	5.3150	30.5	1.201
919	95	3.7402	98	3.858	140	5.5118	32.5	1.280
920	100	3.9370	103	4.055	150	5.9055	32.5	1.280
921	105	4.1339	108	4.252	155	6.1024	40	1.575
923	115	4.5276	118	4.646	165	6.4961	43	1.693
925	125	4.9213	128	5.039	175	6.8898	46.5	1.831
926	130	5.1181	133	5.236	180	7.0866	46.5	1.831
928	140	5.5118	143	5.630	200	7.8740	52	2.047

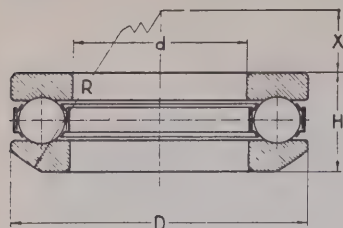
Note: These series also available in close precision tolerances.

►Current SKF production standard.

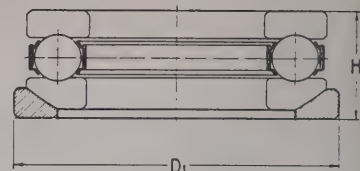
Care must be taken in selecting and designing the mounting for One Direction-Flat seat type Thrust Bearing. It is not recommended where there are possible inaccuracies in mounting, such as misalignment of shaft and housing surfaces.

On horizontal shafts the ball assembly must not be allowed to drop down from its correct load carrying position during periods of inoperation. This can be accomplished by using other radial bearings to obtain definite shaft location, or by adding springs to maintain the parts in concentric relation at all times.

Consult for availability.



700 Type

SKF BALL THRUST BEARINGS**ONE DIRECTION
SPHERICAL SEAT**

700-U (With Aligning Washer)

700 SERIES — MEDIUM

This series not regularly scheduled for production. Consult us for availability.

Bearing Number	d		d ₁	D		H		d ₂	D ₁	H ₁	R	X
	Mm	Inches	Inches	Mm	Inches	Mm	Inches	Inches	Inches	Inches	Inches	Inches
*700	10	.3937	.472	25	.9843	14	.551	.551	1.378	.591	.984	.402
702	15	.5906	.669	35	1.3780	15	.591	.748	1.496	.669	1.181	.488
704	20	.7874	.866	40	1.5748	16	.630	.984	1.772	.709	1.378	.638
705	25	.9843	1.063	48	1.8898	17	.669	1.260	1.969	.748	1.378	.492
706	30	1.1811	1.260	53	2.0866	18	.709	1.673	2.323	.787	1.575	.630
707	35	1.3780	1.457	62	2.4409	21	.827	1.693	2.638	.906	1.969	.913
708	40	1.5748	1.654	64	2.5197	21	.827	1.890	2.717	.906	1.969	.882
709	45	1.7717	1.850	73	2.8740	25	.984	2.087	3.071	1.063	2.362	1.126
710	50	1.9685	2.047	78	3.0709	25	.984	2.283	3.268	1.063	2.559	1.299
711	55	2.1654	2.244	88	3.4646	28	1.102	2.520	3.701	1.181	2.756	1.276
712	60	2.3622	2.441	90	3.5433	28	1.102	2.717	3.780	1.181	2.953	1.496
713	65	2.5591	2.638	100	3.9370	32	1.260	2.913	4.134	1.339	3.150	1.516
714	70	2.7559	2.835	103	4.0551	32	1.260	3.110	4.291	1.339	3.347	1.677
715	75	2.9528	3.032	110	4.3307	32	1.260	3.307	4.488	1.339	3.543	1.819
716	80	3.1496	3.228	115	4.5276	35	1.378	3.504	4.882	1.457	3.740	1.913
717	85	3.3465	3.465	125	4.9213	38	1.496	3.780	5.433	1.575	4.134	2.161
718	90	3.5433	3.662	135	5.3150	38	1.496	3.976	5.551	1.575	4.331	2.260
719	95	3.7402	3.858	140	5.5118	41	1.614	4.213	5.945	1.713	4.528	2.370
720	100	3.9370	4.055	150	5.9055	41	1.614	4.409	6.142	1.732	4.921	2.717
721	105	4.1339	4.252	155	6.1024	46	1.811	4.646	6.417	1.929	5.118	2.732
723	115	4.5276	4.646	165	6.4961	49	1.929	5.039	6.811	2.047	5.512	2.957
725	125	4.9213	5.039	175	6.8898	53	2.086	5.472	7.323	2.205	5.906	3.142
728	140	5.5118	5.630	200	7.8740	60	2.362	6.102	8.346	2.441	6.693	3.583
*730	150	5.9055	6.063	220	8.6614	60	2.362	7.165	8.661	2.559	7.284	3.977
*732	160	6.2992	6.457	235	9.2520	65	2.559	7.087	9.252	2.756	7.795	4.331
*734	170	6.6929	6.850	250	9.8425	70	2.756	7.480	9.843	2.953	8.268	4.567
*736	180	7.0866	7.244	260	10.2362	70	2.756	7.953	10.236	2.953	8.661	4.882

When ordering any of the above bearings, specify aligning washers separately. Example: Bearing 719, Washer 719-U.

*Obsolete. For reference only.

TORRINGTON NEEDLE THRUST BEARINGS

The Torrington Needle Thrust Bearing is available in the standard sizes (NTA Series with or without races) shown on the facing page.

Roller Assemblies

Retainer Construction—The two mating retainer halves are highly accurate steel stampings. These are securely joined to form a self-contained unit closed on the o.d. and i.d. The needle rollers are manufactured of high-carbon chrome steel, through-hardened to Rc 60 minimum. These rollers are precision ground and lapped to a tolerance of .0002" on the diameter.

Thrust Races

Standard Races—Torrington standard thrust races (Series TRA, TRB, etc.) obtainable in various thicknesses to meet different back-up conditions, are designed for applications where hardening and grinding of adjacent parts are impracticable.



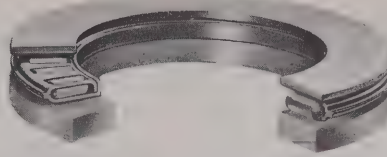
Where adjacent parts are, or can be, hardened and ground, a considerable saving can be effected by operating the roller assembly directly on such surfaces. In most cases a race surface finish of 20 micro-inches is satisfactory.

Installation

Piloting—The Roller Assembly has a larger contact area and a smaller tolerance in the bore than on the o.d. To take advantage of this design and to insure good performance, shaft piloting is recommended. Bores are designed for a running fit on standard shafting, and the outside diameters are .010" under normal.

Where design requirements prevent piloting on the shaft, the Roller Assembly can be piloted on its o.d., as in a housing. However, it then becomes necessary to present a hardened surface to the comparatively small contact area on the bearing o.d. to prevent excessive housing wear.

TORRINGTON NEEDLE THRUST BEARING



**HIGH
THRUST
CAPACITY**

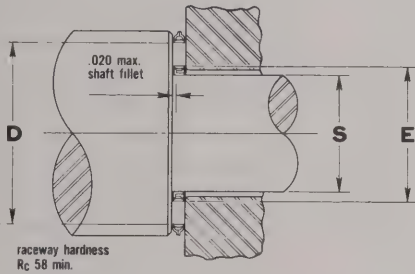
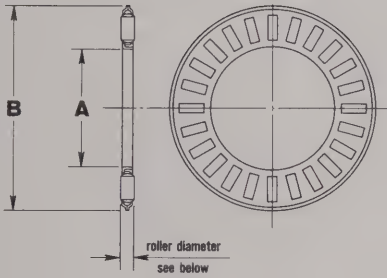
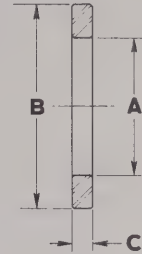
LOW COST

ROLLER ASSEMBLIES—Any hardened surface ground square with bearing axis may be used as the thrust raceways for the Roller Assembly.

THRUST RACES—Properly hardened Thrust Races, in varying thicknesses, are available as listed.

**WASHER-THIN
CROSS SECTION**

**ANTI-FRICTION
OPERATION**



ROLLER ASSEMBLIES

Bearing Number	S Shaft Diameter + .000 — .003	A Bearing Bore + .005 — .000	B Race O.D. + .000 — .010	D Race Contact O.D. Min.	E Race Contact I.D. Max.	Static Capacity
Std. Sizes (NTA-NTC Series.) 0781 Max. Roller Diameter						
NTA 411	.250	.252	.677	.577	.341	1080
NTA 613	.375	.377	.802	.702	.466	1440
NTA 815	.500	.502	.927	.827	.591	1920
NTA 1018	.625	.627	1.115	1.012	.716	3190
NTA 1220	.750	.752	1.240	1.137	.841	3830
NTA 1423	.875	.877	1.427	1.322	.966	5590
NTC 1427	.875	.877	1.677	1.565	1.029	8950
NTA 1625	1.000	1.002	1.552	1.447	1.091	5990
NTA 2031	1.250	1.252	1.927	1.817	1.341	10630
NTA 2233	1.375	1.377	2.052	1.942	1.466	11700
NTA 2435	1.500	1.502	2.177	2.067	1.591	12860
NTA 2840	1.750	1.752	2.490	2.317	1.841	14000
NTA 3244	2.000	2.002	2.740	2.567	2.091	15100
NTA 3648	2.250	2.252	2.990	2.817	2.341	16200
NTA 4052	2.500	2.502	3.240	3.067	2.591	17350
NTA 4860	3.000	3.002	3.740	3.567	3.091	19600
NTA Series—Standard Sizes .125 Max. Roll Dia.						
NTA 3650	2.250	2.252	3.115	2.956	2.360	19870
NTA 6074	3.750	3.752	4.615	4.459	3.863	38700
NTA 6681	4.125	4.127	5.052	4.894	4.238	46900

‡Bearing bore tolerance +.008 —.000 — o. d. tolerance +.000 —.015

THRUST RACES

(For use with NTA-NTC Series Roller Assemblies)

Catalog Number Thrust Race	Shaft Diameter Max.	A Race Bore + .010 — .000	B Race O.D. + .000 — .020	C Race Thickness	
				Min.	Max.
TRA 411	.250	.252	.677	.030	.032
TRB 411	.250	.252	.677	.060	.063
TRC 411	.250	.252	.677	.092	.095
TRA 613	.375	.377	.802	.030	.032
TRB 613	.375	.377	.802	.060	.063
TRC 613	.375	.377	.802	.092	.095
TRA 815	.500	.502	.927	.030	.032
TRB 815	.500	.502	.927	.060	.063
TRC 815	.500	.502	.927	.092	.095
TRA 1018	.625	.627	1.115	.030	.032
TRB 1018	.625	.627	1.115	.060	.063
TRC 1018	.625	.627	1.115	.092	.095
TRA 1220	.750	.752	1.240	.030	.032
TRB 1220	.750	.752	1.240	.060	.063
TRC 1220	.750	.752	1.240	.092	.095
TRD 1220	.750	.752	1.240	.123	.126
TRA 1423	.875	.877	1.427	.030	.032
TRC 1423	.875	.877	1.427	.092	.095
TRD 1423	.875	.877	1.427	.123	.126
TRA 1625	1.000	1.002	1.552	.030	.032
TRB 1625	1.000	1.002	1.552	.060	.063
TRC 1625	1.000	1.002	1.552	.092	.095
TRD 1625	1.000	1.002	1.552	.123	.126
TRE 1625	1.000	1.002	1.552	.154	.157
TRA 2031	1.250	1.252	1.927	.030	.032
TRB 2031	1.250	1.252	1.927	.060	.063
TRC 2031	1.250	1.252	1.927	.092	.095
TRD 2031	1.250	1.252	1.927	.123	.126
TRA 2233	1.375	1.377	2.052	.030	.032
TRA 2435	1.500	1.502	2.177	.030	.032
TRB 2435	1.500	1.502	2.177	.060	.063
TRC 2435	1.500	1.502	2.177	.092	.095
TRD 2435	1.500	1.502	2.177	.123	.126
TRF 2435	1.500	1.502	2.177	.185	.188
TRA 2840	1.750	1.752	2.490	.030	.032
TRC 2840	1.750	1.752	2.490	.092	.095
TRD 2840	1.750	1.752	2.490	.123	.126
TRF 2840	1.750	1.752	2.490	.185	.188
TRA 3244	2.000	2.002	2.740	.030	.032
TRC 3244	2.000	2.002	2.740	.092	.095
TRD 3244	2.000	2.002	2.740	.123	.126
TRA 3648	2.250	2.252	2.990	.030	.032
TRD 3648	2.250	2.252	2.990	.123	.126
TRF 3648	2.250	2.252	2.990	.185	.188
TRA 4052	2.500	2.502	3.240	.030	.032
TRA 4860	3.000	3.002	3.740	.030	.032
TRD 4860	3.000	3.002	3.740	.123	.126

NEED HELP ON BEARINGS—CALL US

TIMKEN® BEARINGS

REGISTERED TRADE MARK
THE TIMKEN STEEL COMPANY

thrust bearings, cageless type TTC and TTCS ARRANGED BY BORE DIAMETERS



fig. 1

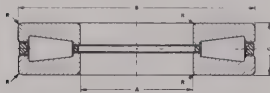


fig. 2

bore A	outside diameter B	width C	radius R	figure no.	bearing number	
					no holes in retainer	oil holes in retainer
1.2600	2.6250	.7656	.031x45°	1	T-127	T-127W
1.3850	2.6250	.7656	.031x45°	1	T-138	T-138W
1.4470	2.6250	.7656	.031x45°	1	T-144	T-144W
1.5100	2.8590	.8438	.031x45°	1	T-151	T-151W
1.5730	2.8590	.8438	.031x45°	1	T-157	T-157W
1.6350	2.8590	.8438	.031x45°	1	T-163	T-163W
1.6970	3.2660	.9375	.031x45°	1	T-169	T-169W
1.7600	3.2660	.9375	.031x45°	1	T-176	T-176W
1.8220	3.2660	.9375	.031x45°	1	T-182	T-182W
1.8850	3.2660	.9063	.031x45°	2	T-189	T-189W
1.8850	3.2660	.9375	.031x45°	1	T-188	T-188W
1.9470	3.6720	1.0313	.031x45°	2	T-193	T-193W
1.9470	3.6720	1.0620	.031x45°	1	T-194	T-194W
2.0100	3.6720	1.0313	.125	2	T-201	T-201W
2.0100	3.6720	1.0625	.125	1	T-202	T-202W
2.0720	3.6720	1.0310	.031x45°	2	T-209	T-209W
2.0720	3.6720	1.0620	.031x45°	1	T-208	T-208W
2.5100	4.3750	1.0156	.031x45°	2	T-252	T-252W
2.5100	4.3750	1.0625	.031x45°	1	T-251	T-251W
3.0100	5.2500	1.3125	.093	2	T-301	T-301W
3.0100	5.2500	1.3750	.093	1	T-302	T-302W

thrust bearings, heavy duty type TTHD

ARRANGED BY BORE DIAMETERS



bore A	outside diam. B	width C	radius R	bearing number
3.0000	6.3750	1.3125	.125	T-311
4.0000	8.5000	1.8125	.125	T-411
4.4000	8.8000	2.2000	.125	T-441
4.5000	9.8750	2.1250	.156	T-451
5.0000	9.8750	2.1875	.187	T-520
5.0000	10.5000	2.3125	.187	T-511
6.0000	12.5000	2.7500	.250	T-611
6.5000	12.2500	3.5000	.250	T-651
6.6250	12.0000	2.7500	.250	T-661
6.8750	14.1250	3.2500	.250	T-691
7.0000	14.5000	3.2500	.312	T-711
8.0000	16.5000	3.6250	.375	T-811
8.0000	16.5000	4.7500	.375	T-811X
9.0000	19.0000	4.1250	.437	T-911
9.2500	21.5000	5.0000	.625	T-921
11.0000	23.7500	5.3750	.437	T-1120
16.0000	28.0000	5.7500	.375	T-16021
16.0000	33.0000	7.0000	.500	T-16050

thrust bearings, steering pivot type TTSP

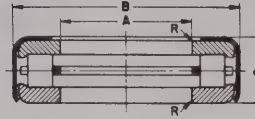


fig. 1

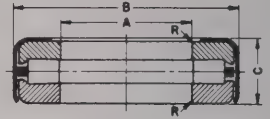


fig. 2

bore A	outside diam. B	through cones C	cone radius R	fig. no.	bearing number	
					no holes in retainer	oil holes in retainer
.6350	1.6250	.5000	.031	1	T-63	T-63W
.7600	1.6250	.5000	.031x45°	1	T-77	T-77W
.7600	1.6250	.5310	.031	1	T-76	T-76W
.7975	1.5625	.5625	.046	1	T-86	T-86W
.8220	1.6250	.5310	.031	1	T-82	T-82W
.8220	1.6600	.5310	.031x45°	2	T-83	T-83W
.8850	1.8906	.5940	.031	1	T-88	T-88W
.9470	1.8906	.5940	.031	1	T-94	T-94W
.9500	2.0000	.6250	.031	1	T-95	T-95W
1.0100	2.0000	.6250	.031	1	T-101	T-101W
1.0350	2.0000	.6250	.031	1	T-104	T-104W
1.0720	2.0000	.6250	.031	1	T-107	T-107W
1.1350	2.0940	.6250	.031	1	T-110	T-110W
1.1350	2.1875	.6250	.031	1	T-113	T-113W
1.1975	2.1875	.6250	.031	1	T-119	T-119W
1.2600	2.1875	.6250	.031	1	T-126	T-126W
1.3850	2.3125	.6250	.031	1	T-139	T-139W
1.3850	2.4688	.7650	.031x45°	1	T-142	T-142W
1.5080	2.5938	.7650	.031x45°	1	T-149	T-149W
2.0100	2.9375	.6250	.031	1	T-199	T-199W

Sizes listed in tables on this page are in regular production and are available for immediate delivery.

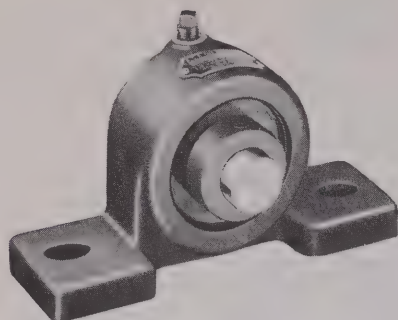
Type TTSP—A unit assembly having rollers spaced by a properly stamped cage. An inexpensive thrust bearing designed for oscillating or slowly rotating applications. Used in such applications as steering pivots, floor jacks, etc.

Types TTC and TTCS—Unit assemblies with full complement of rollers—no cage. The outside retaining band is provided with oil holes to permit entrance of lubricant. Designed for oscillating or slowly rotating applications. Used in such applications as the bottom or step position of a jib crane mast, crane hooks, etc.

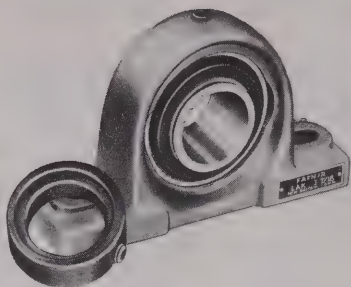
Type TTHD—Has accurately ground rollers operating in two symmetrical raceways having inner and outer ribs. The rollers are ground to precision limits and are properly spaced by means of a bronze cage. Designed for moderately high speeds with continuous rotation. Used in such applications as oil well swivels, extruders and piercing mill thrust blocks, etc.

PILLOW BLOCK SECTION

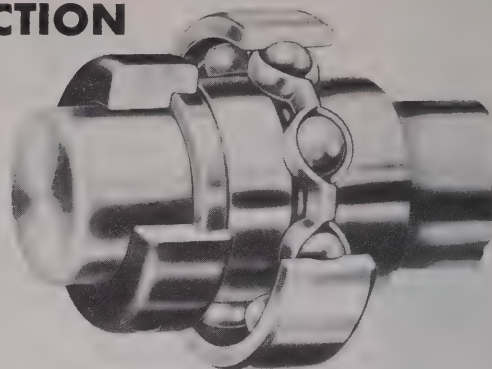
	Page		Page
COOPER SPLIT ROLLER BEARINGS		FAFNIR (continued)	
Cooper Units Illustrated	190	LCJT and RCJT Type Flange Units	235
Application Data on Cooper Units	191	FLCT Type Flange Units	235
MB and MC Medium Series	192	LC, RC, C, CO Cylindrical Cartridges	236
MSP Series Pillow Blocks	193	MC Electric Motor Cartridges	237
HB and HC Heavy Series	194	LTU and MSTU Take-Up Units	238
HSP Series Pillow Blocks	195	NLTU and TU Take-Up Frames	239
XHB and XHC Extra Heavy Series	196	RS, RSU, RBG, RBGU Rubber Pillow Blocks	240
XHP Series Pillow Blocks	197	RBGF Rubber Flange Units	240
		RSC, RCSM, RCR Rubber Cartridges	240
		F Type Lineshaft and SCS, SSS Units	241
DODGE TIMKEN		Knee Type Blower Boxes ABC	242
Double Interlock Pillow Blocks	198	Knee Type Blower Boxes, Bayley	243
Type "C" Pillow Blocks	198	SAON, SAOC Fan Pillow Blocks	243
Special Duty Pillow Blocks	199	Knee Type Blower Boxes, Sturtevant	244
Type "E" Series Pillow Blocks	199		
All-Steel Pillow Blocks	200	LINK BELT	
All-Steel Cartridge Units	200	P2-200, P2-300 Ball Bearing Blocks	245
D, S1, B1 Unit Mounts	201-202	P-200 Ball Bearing Blocks	246
Type "E" Flange Units	203	P-300, PE-300 Series Pillow Blocks	247
Type "E" Piloted Flange Units	203	LP-200, LP-300 Series Pillow Blocks (LPE)	248
Type "C" Flange Units	204	P2-400 Series Roller Bearing Blocks (PK2)	249
Double Interlock Flange Units	204	P2-500 and PE2-500 Series	250
Special Duty Flange Units	204	LP-6800 and GP-6800 Series	251
SC and SCM Type Pillow Blocks	205	LP-6900 and GP-6900 Series	252
SC and SCM Type Flange Units	206	LPK-GPK 6800 and 7800 Cast Steel Blocks	253
SC Type Cylindrical Units	207	GP and LP-7800—GP and LP-7900 Series	254
SC 2-Bolt Flange Units	207	F-200 Ball Bearing Flange Units	255
SC Screw Conveyor Hanger Bearings	207	FX-200, FC-200 Ball Bearing Flange Units	256
SC and SCM Type Take-Up Units	208	F-300, FE-300 Ball Bearing Flange Units	257
SC and SCM Type Take-Ups	209	FC-300, FCE-300 Flange Cartridge Units	258
G, GM and E Type Take-Ups	210	F-400, FC-400 Roller Bearing Flange Units	259
SL Pillow Blocks	211	T-200, T-300 Take-Up Units	260
SL 2 and 3 Bolt Flange Units	211	T-400 Take-Up Units	261
Dodge Base Plates	212	W-200 Series Ball Bearing Units	262
		Take-Up Frames	263
FAFNIR		C-300, CE-300 Cartridge Units	264
Wide Inner Ring Bearing Data	213-214	C2-400 Cartridge Units	265
MU-A, MU-B Machine Units	215		
MUO-A, MUO-B Machine Units	216	SKF	
Mechanical Type Bearings (G—KLL)	217	1200K and 1300K Tapered Bore Series	266
Plya-Seal Type Bearings (G—KRR)	218	I-71200 Extended Inner Race Series	266
Mechanical Type with Snap Ring (KLLG)	219	22200-K and 22300-K Tapered Bore	267
Shroud-Seal Type (RA—PP)	219	SK and ASK Removable Sleeves	268
LAK and RAK Type Pillow Blocks	220	SY and SYH-X Unit Pillow Blocks	269
LAS and RAS Type Pillow Blocks	221	SYP and SYHP Series Pillow Blocks	270
LAO and DRN Type Pillow Blocks	222	SP and SRP Pressed Steel Pillow Blocks	271
LSA and RSA Type Pillow Blocks	223	RP Type Cylindrical Cartridge	271
LSAO, RSAO Type Heavy Pillow Blocks	224	FP and FTP Series Flange Units	272
SA and SADD Pillow Blocks	225	FYP and FYTP Series Flange Units	273
SAO, SAODD Heavy Pillow Blocks	226	FY and FY-X Flange Units	274
SAL and SAOL Pillow Blocks	227	SAF1500A, SAF1600A Pillow Blocks	275
DSA and DSADD Pillow Blocks	228	SAF225A, SAF226A Pillow Blocks	276
DSAO and DSAODD Pillow Blocks	229	SDAF225A, SDAF226A Pillow Blocks	277
PBS Pressed Steel Pillow Blocks	230	SAW225, SAW235 Pillow Blocks	278
LAKH Type Pillow Blocks	230	SAF230A, SDAF230A Extra Large Series Pillow Blocks	279
PB and RPB Pillow Blocks	231	SAF1300 Series Pillow Blocks	280
RABR Units	231	SAF222, SAF223 Pillow Blocks	281
Flangettes (LL-RR-RA)	232-233	SDAF222, SDAF223 Pillow Blocks	282
LCJ and RCJ Type Flange Units	234	SAW222, SAW232 Pillow Blocks	283
LCJO Flange Units	234		

PILLOW BLOCK SECTION

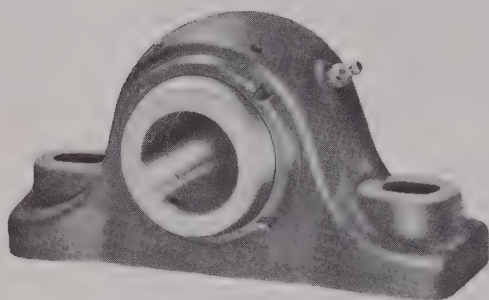
Fafnir SAO Pillow Blocks



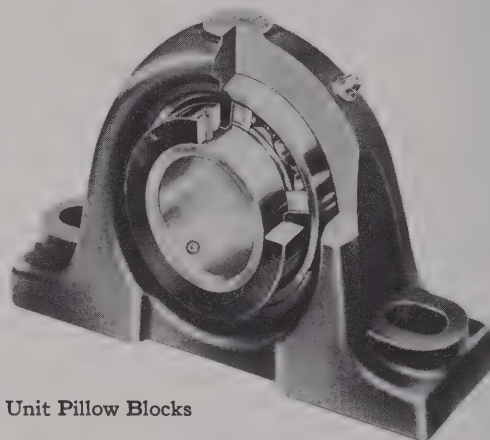
Fafnir LAK Type



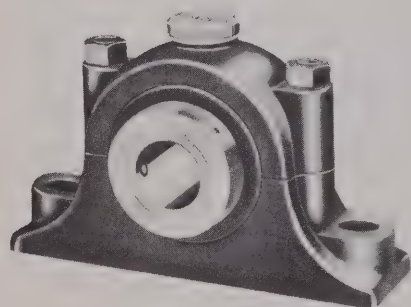
Fafnir Wide Inner Ring Type



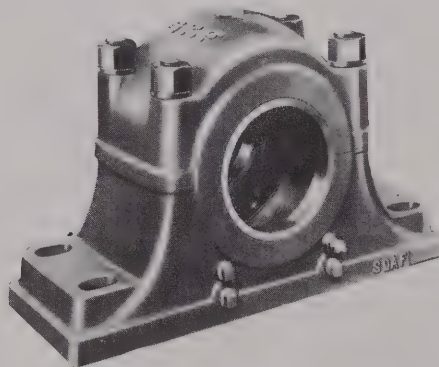
Link Belt P2-400 Series



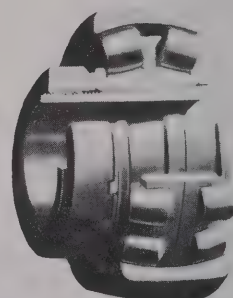
SKF Unit Pillow Blocks



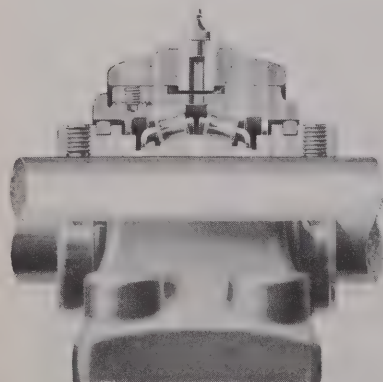
Dodge Timken Pillow Blocks



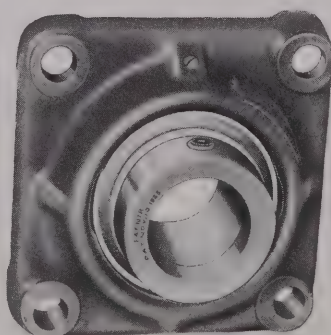
SKF Pillow Blocks



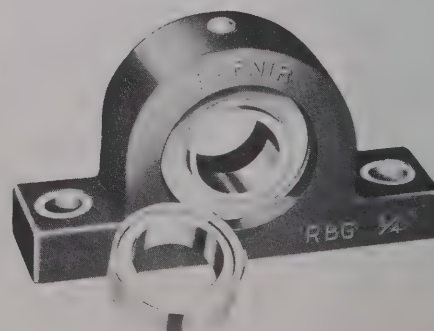
SKF Spherical Adapter Type



Link Belt Expansion Type

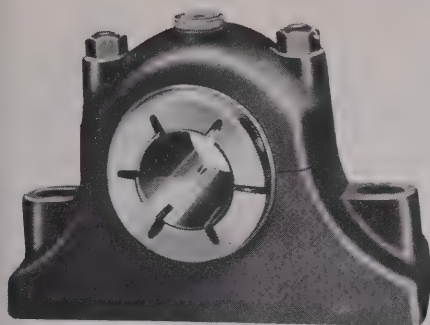


Fafnir Flange Cartridge

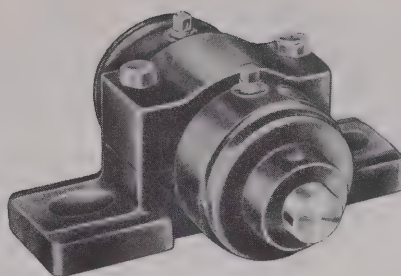


Fafnir Rubber Pillow Blocks

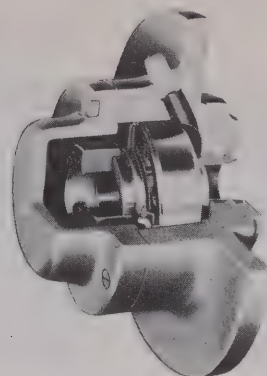
PILLOW BLOCK SECTION



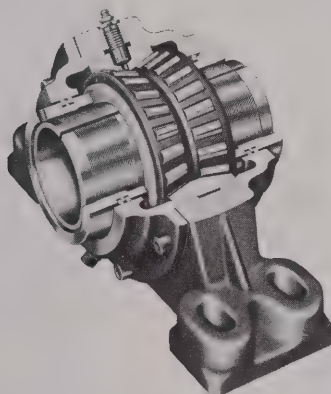
Dodge Timken Clamp Sleeve Type



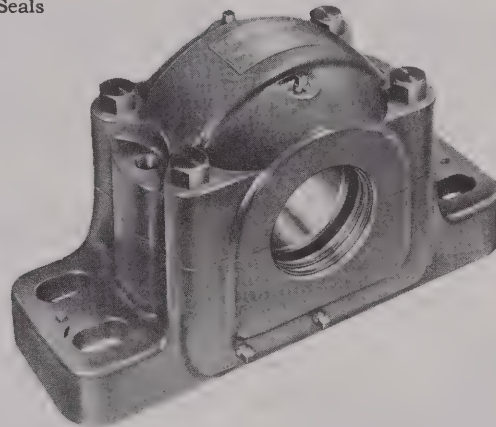
Fafnir Double Pillow Blocks
with Extra Seals



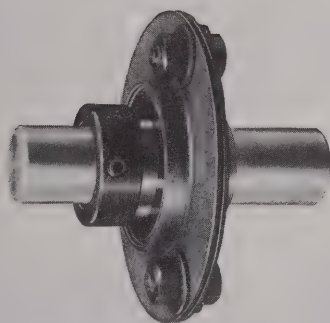
Fafnir Motor Cartridge



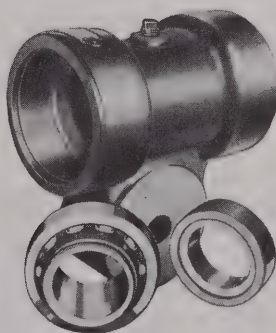
Dodge Steel Housing Pillow Blocks



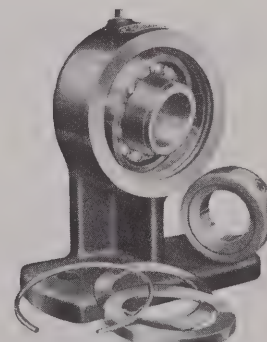
Link Belt Steel Housing Pillow Blocks



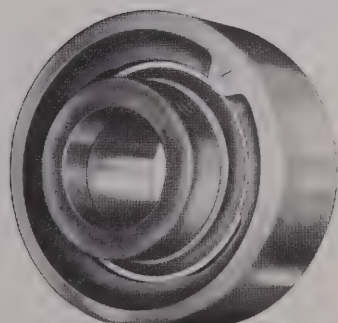
Fafnir Flangettes



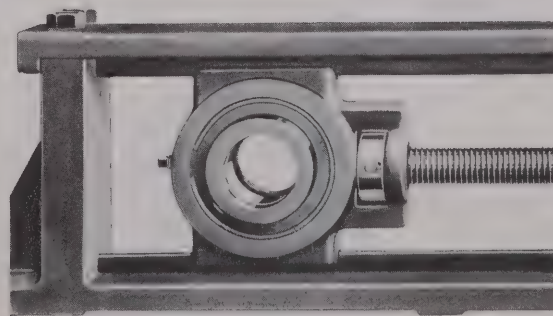
Fafnir Fan and Blower Boxes



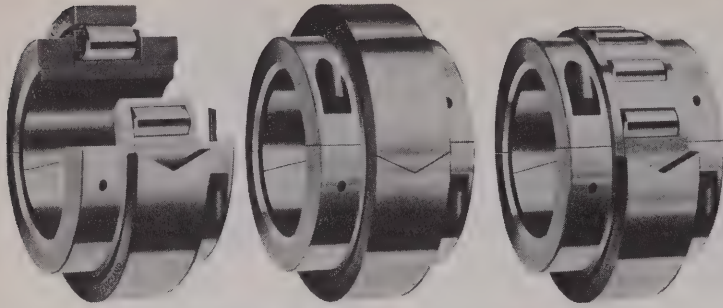
Fafnir Fan Pillow Blocks



Fafnir Cylindrical Cartridge



Fafnir Take-Up Units

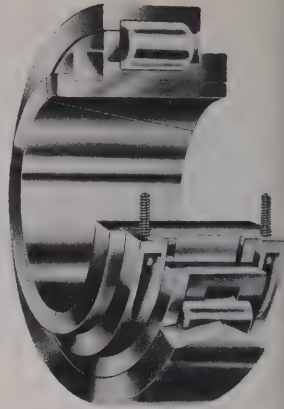
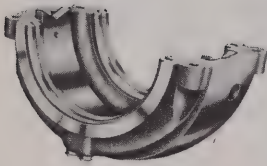
COOPER SPLIT ROLLER BEARINGS**EXPANSION TYPE BEARING**

Cooper Split Roller Bearings are made in halves throughout. The halves of the inner race are fitted around the shaft in the proper location and clamped into position with two locking collars. Assembly is completed by placing the two halves of the cage with rollers and the halves of the outer race into position. The joints of the inner and outer races are diagonal, insuring continuity of contact as the rollers pass over them.

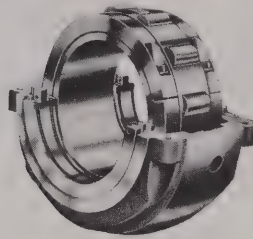
FIXED TYPE BEARING

Where a shaft requires locating end-ways, a grooved race type (fixed type) of bearing should be specified. In any application where there is continuous or heavy end thrust combined with radial load, the groove race bearing should be specified.

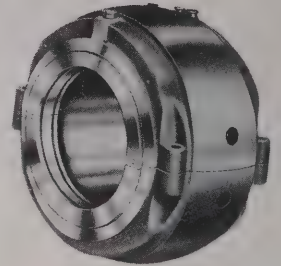
End thrust is dealt with by cycloidal contact between the ends of the rollers and the sides of the grooves in the inner and outer races.

**CARTRIDGE UNIT**

Lower half of split cartridge with half of outer race in place. Also shows grooves ready to receive lower half of split seal.



Bearing assembly in place with upper half of outer race removed. Lower halves of split labyrinth seals are in place, showing interlocking construction and holding pins.



Completely assembled cartridge unit, ready for holding bolts. Split labyrinth aluminum seals, with neoprene rings next to shaft, are shown in assembled position.

PILLOW BLOCKS

Fig. 1

TWO BOLT BASE

$1\frac{3}{16}$ " M.S.P. to 3" M.S.P.
 $1\frac{1}{16}$ " H.S.P. to 3" H.S.P.

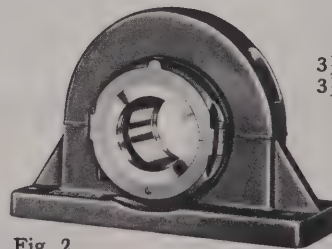


Fig. 2

FOUR BOLT BASE

$3\frac{1}{2}$ " M.S.P. to 6" M.S.P.
 $3\frac{1}{2}$ " H.S.P. to 6" H.S.P.

FOUR BOLT BASE

$6\frac{1}{2}$ " M.S.P. to 22" M.S.P.
 $6\frac{1}{2}$ " H.S.P. to 10" H.S.P.
 10" X.H.P.

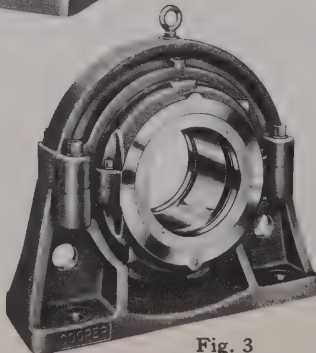


Fig. 3

FOUR BOLT BASE

$2\frac{3}{16}$ " X.H.P. to 9" X.H.P.

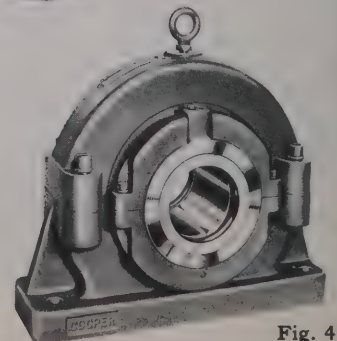
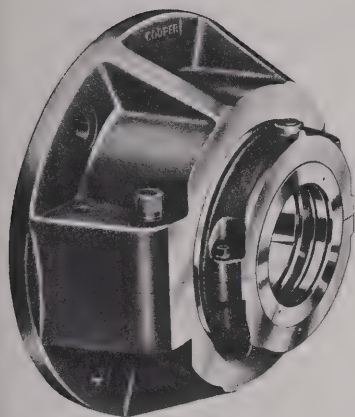


Fig. 4

NEED HELP ON BEARINGS—CALL US

COOPER SPLIT ROLLER BEARINGS

**COOPER FLANGE
UNITS ALSO AVAILABLE.
DIMENSIONAL DATA
FURNISHED UPON
REQUEST.**



FLANGE UNITS

M.F.L. 1 $\frac{3}{16}$ -12"
H.F.L. 1 $\frac{1}{16}$ -10"
X.H.F. 2 $\frac{3}{16}$ -10"

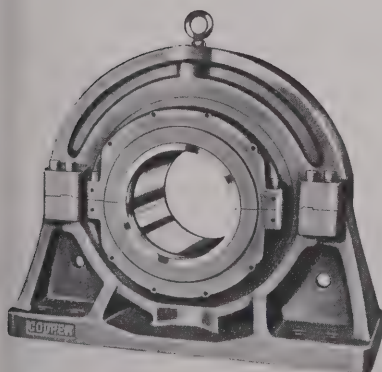


Fig. 5

EIGHT BOLT BASE

Over 22" M.S.P.
Over 10" H.S.P.
Over 10" X.H.P.

MAXIMUM SPEEDS—R.P.M.

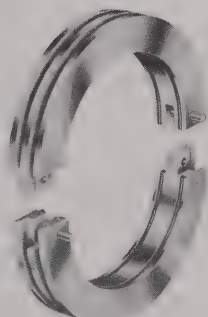
SHAFT SIZE	MEDIUM SERIES	HEAVY SERIES	EXTRA-HEAVY SERIES
1 $\frac{3}{16}$ to 1 $\frac{1}{2}$	3790		
1 $\frac{11}{16}$ to 2	2780	2360	
2 $\frac{3}{16}$ to 2 $\frac{1}{2}$	2400	2040	1730
2 $\frac{11}{16}$ to 3	2190	1860	1580
3 $\frac{3}{16}$ to 3 $\frac{1}{2}$	1820	1550	1310
3 $\frac{11}{16}$ to 4	1640	1390	1180
4 $\frac{3}{16}$ to 4 $\frac{1}{2}$	1400	1190	1010
4 $\frac{11}{16}$ to 5	1240	1060	900
5 $\frac{3}{16}$ to 5 $\frac{1}{2}$	1140	970	830
5 $\frac{11}{16}$ to 6	1070	910	770
6 $\frac{3}{16}$ to 6 $\frac{1}{2}$	1000	850	720
6 $\frac{11}{16}$ to 7	970	820	700
8	890	760	650
9	750	640	540
10	670	570	490
11	630	540	460
12	580	500	420
13	540	460	390

For some applications, especially at the higher speeds, bearing construction may vary. Speeds above the normal maximum can be achieved by special design and lubrication.

SHAFT LIMITS

Shafts for Cooper Split Roller Bearings should be machined to the following limits:

	High	Low
1. Diameter of shaft		
(a) For normal duty	+ .000"	— .002"
(b) For high speed and severe duty including reversals (e.g. connecting rod applications)	+ .000"	— .0005"

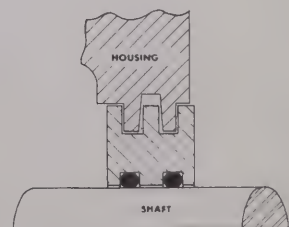


Cooper Split Triple
Labyrinth Aluminum Seal
PATENT APPLIED FOR

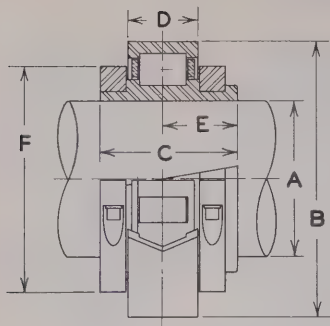
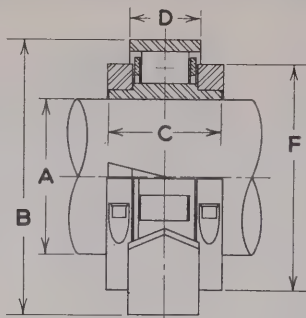
SEALING

All Cooper Mounted Units up through 12" shaft size are supplied with an Aluminum Triple Labyrinth Seal. The seal is split, consisting of two semi-circular parts machined with two grooves on the outside diameter forming the triple labyrinth. Each half has a tongue and groove arrangement on the ends, which interlock when brought together, assuring perfect aligning and true running. The halves of the seal are joined by insertion of steel locking pins through the tongue and groove portion of the seal.

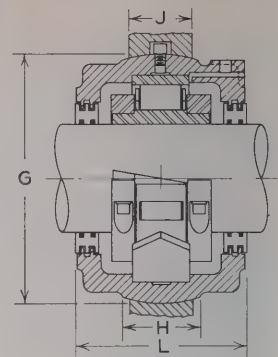
The bore of the seal is machined to take synthetic elastomer "O" rings which, when the seal is secured in place around the shaft, are depressed slightly adjusting to any slight surface deformities on the shaft itself. The "O" ring also allows the seal to move axially on the shaft, to a limited degree. There is no wear on the shaft since the seal is clamped to it and rotates with it.



The seal is clamped to the shaft and rotates with it.

COOPER SPLIT ROLLER BEARINGS**FIXED TYPE "-GR"****EXPANSION TYPE "-EX"****MEDIUM
SERIES**

Always specify
whether Fixed
or Expansion
Type required

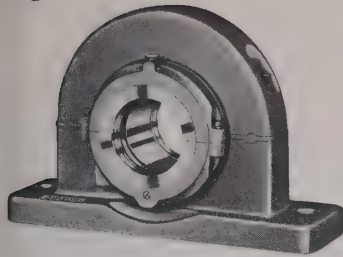
**CARTRIDGE**

Shaft Size A	BEARING								CARTRIDGE						
	Bearing Number	B O.D. Outer Race	C		D		E	F	Unit Number	G Spherical O.D.	H	J	L		
			Width	Inner Race	Width	Outer Race							Length on Shaft		
														Fixed	Expan.
1 ¹⁵ / ₁₆ 1 ³ / ₄ 1 ¹⁷ / ₁₆ 1 ¹ / ₂	MB-103 MB-104 MB-107 MB-108	3 ⁵ / ₁₆	2 ¹ / ₁₆	1 ²⁵ / ₃₂	1	1 ⁵ / ₁₆	1 ⁷ / ₆₄	2 ⁵ / ₈	MC-103 MC-104 MC-107 MC-108	3 ¹⁵ / ₁₆	1 ¹ / ₄	1	3.380	3.250	
1 ¹¹ / ₁₆ 1 ³ / ₄ 1 ¹⁵ / ₁₆ 2	MB-111 MB-112 MB-115 MB-200	3 ⁷ / ₈	2 ¹⁹ / ₆₄	2	1 ³ / ₃₂	1	1 ¹⁵ / ₆₄	3 ¹ / ₈	MC-111 MC-112 MC-115 MC-200	4 ³ / ₈	1 ³ / ₈	1	3.815	3.380	
2 ³ / ₁₆ 2 ¹ / ₄ 2 ¹ / ₂ 2 ⁵ / ₈	MB-203 MB-204 MB-207 MB-208	4 ¹ / ₂	2 ³ / ₈	2	1 ¹ / ₈	1 ¹ / ₁₆	1 ⁹ / ₃₂	3 ⁵ / ₈	MC-203 MC-204 MC-207 MC-208	5 ⁵ / ₁₆	1 ⁵ / ₈	1 ¹ / ₄	4.060	3.620	
2 ¹¹ / ₁₆ 2 ³ / ₄ 2 ¹⁵ / ₁₆ 3	MB-211 MB-212 MB-215 MB-300	5 ¹ / ₄	2 ⁵ / ₈	2 ⁷ / ₃₂	1 ³ / ₈	1 ¹ / ₄	1 ²⁷ / ₆₄	4 ³ / ₁₆	MC-211 MC-212 MC-215 MC-300	6 ³ / ₁₆	1 ⁷ / ₈	1 ¹ / ₂	4.497	3.872	
3 ⁵ / ₁₆ 3 ³ / ₄ 3 ¹⁷ / ₁₆ 3 ¹ / ₂	MB-303 MB-304 MB-307 MB-308	6	3 ¹ / ₆₄	2 ¹⁷ / ₃₂	1 ¹⁷ / ₃₂	1 ⁵ / ₈	1 ⁵ / ₈	5	MC-303 MC-304 MC-307 MC-308	7	2 ³ / ₈	2	5.318	4.568	
3 ¹¹ / ₁₆ 3 ³ / ₄ 3 ¹⁵ / ₁₆ 4	MB-311 MB-312 MB-315 MB-400	6 ⁷ / ₈	3 ¹⁵ / ₃₂	2 ⁷ / ₈	1 ¹³ / ₁₆	1 ²⁵ / ₃₂	1 ⁷ / ₈	5 ¹¹ / ₁₆	MC-311 MC-312 MC-315 MC-400	8	2 ³ / ₈	2	5.818	4.943	
4 ³ / ₁₆ 4 ¹ / ₄ 4 ¹ / ₂ 4 ⁵ / ₈	MB-403 MB-404 MB-407 MB-408	8	3 ⁴¹ / ₆₄	3 ¹ / ₁₆	1 ²⁹ / ₃₂	1 ²⁷ / ₃₂	1 ³¹ / ₃₂	6 ¹ / ₂	MC-403 MC-404 MC-407 MC-408	9 ¹ / ₈	2 ³ / ₄	2 ³ / ₄	6.255	5.380	
4 ¹¹ / ₁₆ 4 ³ / ₄ 4 ¹⁵ / ₁₆ 5	MB-411 MB-412 MB-415 MB-500	8 ³ / ₄	3 ⁷ / ₈	3 ⁷ / ₃₂	2 ¹ / ₈	2 ¹ / ₈	2 ⁷ / ₆₄	7 ¹ / ₁₆	MC-411 MC-412 MC-415 MC-500	10 ¹ / ₂	3 ¹ / ₄	2 ³ / ₄	6.820	5.820	
5 ³ / ₁₆ 5 ¹ / ₄ 5 ¹ / ₂ 5 ⁵ / ₈	MB-503 MB-504 MB-507 MB-508	9 ¹ / ₂	4 ⁷ / ₃₂	3 ⁹ / ₁₆	2 ³ / ₁₆	2 ³ / ₁₆	2 ⁹ / ₃₂	7 ³ / ₄	MC-503 MC-504 MC-507 MC-508	11	3 ¹ / ₂	3	7.195	6.195	
5 ¹¹ / ₁₆ 5 ³ / ₄ 5 ¹⁵ / ₁₆ 6	MB-511 MB-512 MB-515 MB-600	10	4 ⁷ / ₃₂	3 ¹⁹ / ₃₂	2 ³ / ₁₆	2 ³ / ₁₆	2 ⁹ / ₃₂	8 ³ / ₈	MC-511 MC-512 MC-515 MC-600	11 ⁵ / ₈	3 ³ / ₈	3 ¹ / ₄	7.580	6.642	
6 ³ / ₁₆ 6 ¹ / ₄ 6 ¹ / ₂ 6 ⁵ / ₈	MB-603 MB-604 MB-607 MB-608	10 ³ / ₄	4 ¹¹ / ₁₆	4	2 ³ / ₈	2 ³ / ₈	2 ¹⁷ / ₃₂	9 ³ / ₁₆	MC-603 MC-604 MC-607 MC-608	12 ¹ / ₄	3 ¹ / ₈	3	7.580	7.580	
6 ¹¹ / ₁₆ 6 ³ / ₄ 6 ¹⁵ / ₁₆ 7	MB-611 MB-612 MB-615 MB-700	11 ¹ / ₄	4 ¹¹ / ₁₆	4	2 ³ / ₈	2 ³ / ₁₆	2 ¹⁷ / ₃₂	9 ¹¹ / ₁₆	MC-611 MC-612 MC-615 MC-700	12 ³ / ₄	3 ¹ / ₈	2 ³ / ₄	7.835	7.835	
8	MB-800	12 ¹ / ₄	4 ¹¹ / ₁₆	4 ¹ / ₃₂	2 ³ / ₈	2 ³ / ₈	2 ¹⁷ / ₃₂	10 ¹¹ / ₁₆	MC-800	14 ¹ / ₈	3 ¹ / ₂	3 ³ / ₈	7.835	7.835	
9	MB-900	13 ¹ / ₂	4 ¹⁵ / ₁₆	4 ¹ / ₄	2 ¹ / ₂	2 ¹ / ₂	2 ⁴³ / ₆₄	11 ¹³ / ₁₆	MC-900	15 ¹ / ₄	3 ¹ / ₂	3 ¹ / ₄	8.460	8.460	
10	MB-1000	14 ³ / ₄	5 ⁷ / ₃₂	4 ¹⁷ / ₃₂	2 ⁵ / ₈	2 ⁵ / ₈	2 ¹³ / ₁₆	12 ¹⁵ / ₁₆	MC-1000	16 ¹ / ₂	3 ⁵ / ₈	3 ¹ / ₂	8.705	8.705	
11	MB-1100	16	5 ³¹ / ₆₄	4 ³ / ₄	2 ²³ / ₃₂	2 ²³ / ₃₂	2 ⁶¹ / ₆₄	14 ¹ / ₈	MC-1100	17 ⁷ / ₈	3 ³ / ₈	3 ³ / ₄	9.080	9.080	
12	MB-1200	17 ¹ / ₄	6 ³ / ₃₂	5 ⁹ / ₃₂	2 ¹⁵ / ₁₆	2 ¹⁵ / ₁₆	3 ⁹ / ₃₂	15 ⁷ / ₁₆	MC-1200	19 ¹ / ₄	4	3 ³ / ₈	9.705	9.705	
13	MB-1300	18 ¹ / ₄	6 ⁷ / ₃₂	5 ⁷ / ₁₆	2 ¹⁵ / ₁₆	2 ¹⁵ / ₁₆	3 ¹¹ / ₃₂	16 ⁷ / ₁₆	MC-1300	20 ¹ / ₂	4	3 ³ / ₄	9 ¹ / ₄	9 ¹ / ₄	
14	MB-1400	19 ¹ / ₄	6 ¹ / ₃₂	5 ¹ / ₁₆	2 ¹⁵ / ₁₆	2 ¹⁵ / ₁₆	3 ¹¹ / ₃₂	17 ¹ / ₁₆	MC-1400	21 ¹ / ₂	4 ¹ / ₈	3 ³ / ₈	9 ¹ / ₂	9 ¹ / ₂	
15	MB-1500	20 ¹ / ₂	6 ¹ / ₁₆	5 ²¹ / ₃₂	3	3	3 ²⁹ / ₆₄	18 ⁵ / ₈	MC-1500	22 ¹ / ₂	4 ¹ / ₈	3 ³ / ₈	9 ⁵ / ₈	9 ⁵ / ₈	
16	MB-1600	21 ¹ / ₂	6 ¹⁵ / ₁₆	6 ¹ / ₃₂	3	3	3 ⁴¹ / ₆₄	19 ⁵ / ₈	MC-1600	23 ³ / ₄	4 ¹ / ₄	4	10 ¹ / ₄	10 ¹ / ₄	
17	MB-1700	22 ¹ / ₂	6 ¹⁵ / ₁₆	6 ¹ / ₁₆	3	3	3 ⁴⁵ / ₆₄	20 ⁵ / ₈	MC-1700	24 ³ / ₄	4 ¹ / ₄	4	10 ¹ / ₄	10 ¹ / ₄	
18	MB-1800	23 ¹ / ₂	7 ¹ / ₁₆	6 ⁵ / ₁₆	3	3	3 ⁴⁹ / ₆₄	21 ⁵ / ₈	MC-1800	25 ³ / ₄	4 ¹ / ₄	4 ¹ / ₄	10 ¹ / ₂	10 ¹ / ₂	
19	MB-1900	24 ³ / ₄	7 ³ / ₈	6 ¹⁹ / ₃₂	3 ³ / ₁₆	3 ³ / ₁₆	3 ¹⁵ / ₁₆	22 ⁵ / ₈	MC-1900	26 ³ / ₄	4 ¹ / ₂	4 ¹ / ₄	10 ³ / ₄	10 ³ / ₄	
20	MB-2000	25 ³ / ₄	7 ³¹ / ₆₄	6 ²³ / ₃₂	3 ³ / ₃₂	3 ³ / ₃₂	3 ⁶³ / ₆₄	23 ⁵ / ₈	MC-2000	28 ¹ / ₄	4 ¹ / ₂	4 ¹ / ₂	11	11	
21	MB-2100	27 ¹ / ₄	7 ⁷ / ₈	7 ¹ / ₄	3 ³ / ₁₆	3 ³ / ₁₆	4 ³ / ₁₆	24 ¹⁵ / ₁₆	MC-2100	29 ³ / ₄	4 ³ / ₄	4 ¹ / ₂	11 ⁵ / ₈	11 ⁵ / ₈	
22	MB-2200	28 ¹ / ₄	8	7 ¹ / ₄	3 ³ / ₁₆	3 ³ / ₁₆	4 ³ / ₄	25 ¹⁵ / ₁₆	MC-2200	30 ³ / ₄	4 ³ / ₄	4 ¹ / ₂	12	12	
23	MB-2300	29 ¹ / ₂	8 ⁹ / ₃₂	7 ¹⁵ / ₃₂	3 ³ / ₁₆	3 ³ / ₁₆	4 ¹³ / ₃₂	27 ¹ / ₁₆	MC-2300	32 ¹ / ₂	5	4 ³ / ₄	12 ¹ / ₄	12 ¹ / ₄	
24	MB-2400	30 ¹ / ₂	8 ¹³ / ₃₂	7 ¹⁹ / ₃₂	3 ³ / ₁₆	3 ³ / ₁₆	4 ¹⁵ / ₃₂	28 ¹ / ₁₆	MC-2400	33 ³ / ₈	5	4 ³ / ₄	12 ³ / ₄	12 ³ / ₄	

NEED HELP ON BEARINGS—CALL US

COOPER SPLIT ROLLER BEARINGS

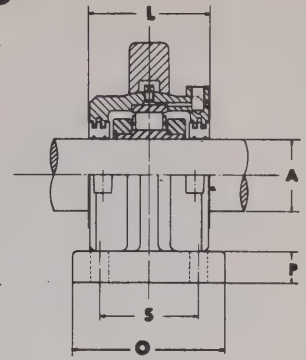
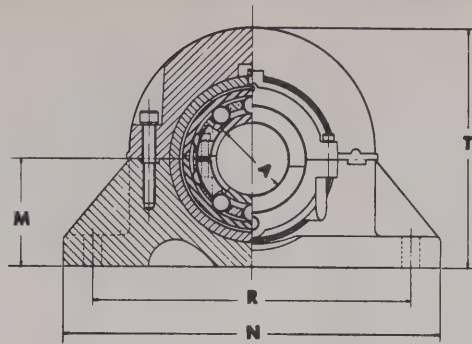
Fig. 1



STANDARD PILLOW BLOCK
TWO-BOLT BASE

MEDIUM SERIES

Always specify
whether Fixed
or Expansion
Type required

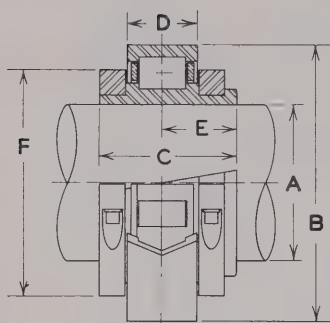
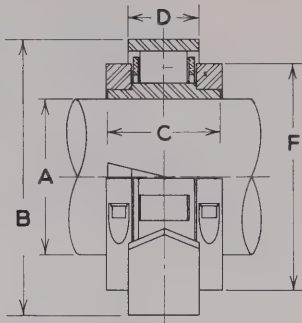


Shaft Size A	Housing Style ★	PILLOW BLOCK											
		Unit Number	M	N	O	P	Bolts		R	* Ro	S	T	Net Wt.
							No.	Size					Lbs.
1 ¹³ / ₁₆ 1 ¹ / ₄ 1 ¹⁷ / ₁₆ 1 ¹ / ₂	Fig. 1	MSP-103 MSP-104 MSP-107 MSP-108	2 ⁵ / ₈	9 ¹ / ₄	2 ¹ / ₄	⁷ / ₈	2	¹ / ₂	7 ¹ / ₂	....	....	5 ²³ / ₃₂	14
1 ¹¹ / ₁₆ 1 ³ / ₄ 1 ¹⁵ / ₁₆ 2	Fig. 1	MSP-111 MSP-112 MSP-115 MSP-200	3	10 ¹ / ₂	2 ³ / ₄	⁷ / ₈	2	⁵ / ₈	8 ⁵ / ₈	....	....	6 ¹¹ / ₁₆	22
2 ³ / ₁₆ 2 ¹ / ₄ 2 ⁷ / ₁₆ 2 ¹ / ₂	Fig. 1	MSP-203 MSP-204 MSP-207 MSP-208	3 ¹ / ₄	11 ¹ / ₈	3 ¹ / ₄	1	2	⁵ / ₈	9 ¹ / ₄	....	....	7 ⁹ / ₃₂	27
2 ¹¹ / ₁₆ 2 ³ / ₄ 2 ¹⁵ / ₁₆ 3	Fig. 1	MSP-211 MSP-212 MSP-215 MSP-300	3 ³ / ₄	13	3 ³ / ₄	1 ¹ / ₈	2	³ / ₄	10 ³ / ₄	....	....	8 ¹⁷ / ₃₂	38
3 ³ / ₁₆ 3 ¹ / ₄ 3 ⁷ / ₁₆ 3 ¹ / ₂	Fig. 2	MSP-303 MSP-304 MSP-307 MSP-308	4 ¹ / ₂	15	5 ¹ / ₂	1 ¹ / ₄	4	³ / ₄	12 ⁷ / ₈	....	3 ¹ / ₂	10 ¹ / ₈	65
3 ¹¹ / ₁₆ 3 ³ / ₄ 3 ¹⁵ / ₁₆ 4	Fig. 2	MSP-311 MSP-312 MSP-315 MSP-400	5	16 ³ / ₄	6	1 ³ / ₈	4	³ / ₄	14 ¹ / ₂	....	4	11 ¹ / ₂	84
4 ³ / ₁₆ 4 ¹ / ₄ 4 ⁷ / ₁₆ 4 ¹ / ₂	Fig. 2	MSP-403 MSP-404 MSP-407 MSP-408	5 ⁵ / ₈	18 ³ / ₄	6 ³ / ₄	1 ³ / ₈	4	⁷ / ₈	16 ¹ / ₄	....	4 ¹ / ₂	12 ¹⁵ / ₁₆	130
4 ¹¹ / ₁₆ 4 ³ / ₄ 4 ¹⁵ / ₁₆ 5	Fig. 2	MSP-411 MSP-412 MSP-415 MSP-500	6 ³ / ₈	20	7	1 ¹ / ₂	4	⁷ / ₈	17 ³ / ₄	....	4 ³ / ₄	14 ⁵ / ₁₆	172
5 ³ / ₁₆ 5 ¹ / ₄ 5 ⁷ / ₁₆ 5 ¹ / ₂	Fig. 2	MSP-503 MSP-504 MSP-507 MSP-508	7 ¹ / ₈	22	7	1 ⁵ / ₈	4	⁷ / ₈	19	....	4 ³ / ₄	15 ¹³ / ₁₆	220
5 ¹¹ / ₁₆ 5 ³ / ₄ 5 ¹⁵ / ₁₆ 6	Fig. 2	MSP-511 MSP-512 MSP-515 MSP-600	7 ¹ / ₈	22	7	1 ⁵ / ₈	4	⁷ / ₈	19 ¹ / ₂	....	4 ³ / ₄	16 ⁵ / ₁₆	233
6 ³ / ₁₆ 6 ¹ / ₄ 6 ⁷ / ₁₆ 6 ¹ / ₂	Fig. 3	MSP-603 MSP-604 MSP-607 MSP-608	8 ³ / ₈	20	7	1 ¹ / ₄	4	1	14 ¹ / ₂	....	4 ¹ / ₂	16 ⁷ / ₈	248
6 ¹¹ / ₁₆ 6 ³ / ₄ 6 ¹⁵ / ₁₆ 7	Fig. 3	MSP-611 MSP-612 MSP-615 MSP-700	9 ¹ / ₄	21	7 ¹ / ₂	1 ³ / ₈	4	1	15 ¹ / ₄	....	5	18 ¹ / ₂	270
8	Fig. 3	MSP-800	9 ³ / ₄	22 ¹ / ₂	8	1 ¹ / ₂	4	1	16 ⁵ / ₈	....	5 ¹ / ₂	19 ¹ / ₂	340
9	Fig. 3	MSP-900	10 ⁵ / ₈	25	8 ¹ / ₂	1 ⁵ / ₈	4	1 ¹ / ₄	18 ¹ / ₈	....	5 ¹ / ₂	21 ¹ / ₄	420
10	Fig. 3	MSP-1000	11 ¹ / ₂	27	9	1 ³ / ₄	4	1 ¹ / ₄	19 ³ / ₄	....	5 ¹ / ₂	23	530
11	Fig. 3	MSP-1100	12 ¹ / ₄	28 ¹ / ₂	9	1 ⁷ / ₈	4	1 ¹ / ₄	21	....	5 ¹ / ₂	24 ¹ / ₂	630
12	Fig. 3	MSP-1200	13 ¹ / ₂	30	10	2	4	1 ¹ / ₄	23	....	7	27	750
13	Fig. 3	MSP-1300	14 ¹ / ₂	32	10	2 ¹ / ₈	4	1 ¹ / ₂	24 ¹ / ₂	....	7	29	850
14	Fig. 3	MSP-1400	15 ¹ / ₄	33 ¹ / ₂	10	2 ¹ / ₄	4	1 ¹ / ₂	25 ³ / ₄	....	6 ¹ / ₂	30 ¹ / ₂	950
15	Fig. 3	MSP-1500	15 ⁵ / ₈	35 ¹ / ₂	10	2 ³ / ₈	4	1 ¹ / ₂	26 ⁵ / ₈	....	6 ¹ / ₂	31 ¹ / ₄	1100
16	Fig. 3	MSP-1600	16 ⁷ / ₈	37	10	2 ¹ / ₂	4	1 ¹ / ₂	28 ¹ / ₂	....	6 ¹ / ₂	33 ³ / ₄	1200
17	Fig. 3	MSP-1700	17 ¹ / ₂	38	10	2 ⁵ / ₈	4	1 ¹ / ₂	29 ³ / ₄	....	6 ¹ / ₂	35	1250
18	Fig. 3	MSP-1800	18 ¹ / ₄	41	11	2 ³ / ₄	4	1 ³ / ₄	31	....	7 ¹ / ₂	36 ¹ / ₂	1400
19	Fig. 3	MSP-1900	18 ⁷ / ₈	43	11 ¹ / ₂	2 ⁷ / ₈	4	1 ³ / ₄	32 ¹ / ₈	....	7 ³ / ₈	37 ³ / ₄	1650
20	Fig. 3	MSP-2000	19 ¹ / ₄	43	12	3	4	1 ³ / ₄	33 ¹ / ₄	....	8 ¹ / ₂	38 ¹ / ₂	1700
21	Fig. 3	MSP-2100	21	47	12	3 ¹ / ₈	4	1 ³ / ₄	35 ⁵ / ₈	....	8 ¹ / ₂	42	1950
22	Fig. 3	MSP-2200	21 ³ / ₄	48	12	3 ¹ / ₄	4	1 ³ / ₄	36 ⁷ / ₈	....	8 ¹ / ₂	43 ¹ / ₂	2200
23	Fig. 5	MSP-2300	22 ⁵ / ₈	52 ¹ / ₂	12	3 ⁵ / ₈	8	1 ¹ / ₂	42 ¹ / ₂	34 ¹ / ₂	8 ⁵ / ₈	45 ¹ / ₄	2400
24	Fig. 5	MSP-2400	23 ¹ / ₂	54	12	3 ¹ / ₂	8	1 ¹ / ₂	44	35 ³ / ₄	8 ⁵ / ₈	47	2700

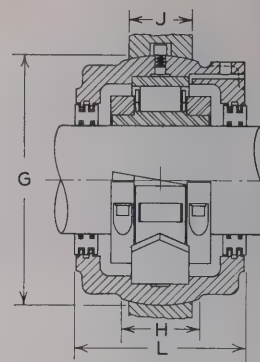
*Ro is "R" dimension for the inside set of bolt holes in the eight bolt bases.

★See pages 190 and 191 for illustration of pillow block.

NEED HELP ON BEARINGS—CALL US

COOPER SPLIT ROLLER BEARINGS**FIXED TYPE "GR"****EXPANSION TYPE "EX"****HEAVY
SERIES**

Always specify
whether Fixed
or Expansion
Type required

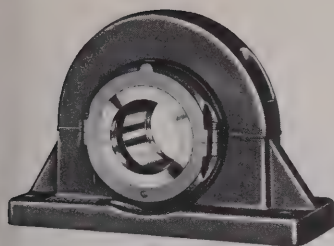
**CARTRIDGE**

BEARING									CARTRIDGE						
Shaft Size A	Bearing Number	B O.D. Outer Race	C		D		E	F	Unit Number	G Spherical O.D.	H	J	L		
			Width Inner Race		Width Outer Race								Length on Shaft		
			Fixed	Expan.	Fixed	Expan.							Fixed	Expan.	
1 11/16 1 3/4 1 15/16 2	HB-111 HB-112 HB-115 HB-200	4 1/4	2 7/8	2 7/16	1 3/8	1 1/16	1 33/64	3 3/16	HC-111 HC-112 HC-115 HC-200	5 5/16	1 5/8	1 1/4	4.400	3.815	
2 5/16 2 3/4 2 7/8 2 15/16 2 1/2	HB-203 HB-204 HB-207 HB-208	5	3 5/64	2 19/32	1 17/32	1 3/8	1 21/32	4	HC-203 HC-204 HC-207 HC-208	6 3/16	1 7/8	1 1/2	4.935	4.185	
2 11/16 2 3/4 2 15/16 3	HB-211 HB-212 HB-215 HB-300	5 7/8	3 17/32	2 15/16	1 13/16	1 17/32	1 29/32	4 21/32	HC-211 HC-212 HC-215 HC-300	7	2 3/8	2	5.495	4.620	
3 5/16 3 3/4 3 7/8 3 15/16 3 1/2	HB-303 HB-304 HB-307 HB-308	6 11/16	3 53/64	3 5/16	1 29/32	1 27/32	2 1/16	5 3/8	HC-303 HC-304 HC-307 HC-308	8	2 3/8	2	6.068	5.130	
3 11/16 3 3/4 3 15/16 4	HB-311 HB-312 HB-315 HB-400	7 5/8	4 3/32	3 11/32	2 3/16	2 1/32	2 7/32	6 1/8	HC-311 HC-312 HC-315 HC-400	9 1/8	2 3/4	2 3/4	6.505	5.380	
4 3/16 4 1/4 4 7/8 4 15/16 4 1/2	HB-403 HB-404 HB-407 HB-408	9	4 35/64	3 23/32	2 15/32	2 1/4	2 15/32	6 7/8	HC-403 HC-404 HC-407 HC-408	10 1/2	3 1/4	3	7.130	5.943	
4 11/16 4 3/4 4 15/16 5	HB-411 HB-412 HB-415 HB-500	10	5 7/64	4 3/16	2 23/32	2 1/2	2 49/64	7 5/8	HC-411 HC-412 HC-415 HC-500	11 3/8	3 5/8	3 1/4	8.195	6.820	
5 5/16 5 1/4 5 7/8 5 15/16 5 1/2	HB-503 HB-504 HB-507 HB-508	10 3/4	5 11/32	4 3/8	2 15/16	2 5/8	2 29/32	8 5/16	HC-503 HC-504 HC-507 HC-508	12 3/4	3 7/8	3 1/2	8.320	6.945	
5 11/16 5 3/4 5 15/16 6	HB-511 HB-512 HB-515 HB-600	11 1/2	5 9/16	4 5/8	3	2 11/16	3 1/64	9 1/8	HC-511 HC-512 HC-515 HC-600	13 1/4	3 7/8	3 3/4	9.080	7.705	
6 5/16 6 3/4 6 7/8 6 15/16 6 1/2	HB-603 HB-604 HB-607 HB-608	12 1/2	6 1/64	5	3 9/32	3 3/32	3 17/64	9 7/8	HC-603 HC-604 HC-607 HC-608	14 1/2	4 3/16	3 3/4	9.080	9.080	
6 11/16 6 3/4 6 15/16 7	HB-611 HB-612 HB-615 HB-700	13	6 1/64	5	3 9/32	3 3/32	3 17/64	10 3/8	HC-611 HC-612 HC-615 HC-700	15	4 1/4	3 3/4	9.460	9.460	
8	HB-800	14 1/2	6 23/32	5 5/8	3 9/16	3 3/16	3 41/64	11 7/8	HC-800	16 3/4	4 1/2	4 1/8	10.085	10.085	
9	HB-900	15 1/2	6 31/32	5 15/16	3 5/16	3 3/16	3 49/64	12 3/4	HC-900	18	4 7/8	4 3/8	10.705	10.705	
10	HB-1000	17	7 9/32	6 3/16	3 13/16	3 13/16	3 15/16	14 1/8	HC-1000	19 1/2	5 1/8	4 5/8	10.955	10.955	
11	HB-1100	18 1/4	7 31/32	6 7/8	4	4	4 19/64	15 1/16	HC-1100	20 3/4	5 3/8	5 1/8	11.705	11.705	
12	HB-1200	19 3/4	8 7/32	7 1/8	4 1/16	4 1/16	4 27/64	16 3/8	HC-1200	21 3/4	5 1/4	5	11.955	11.955	
13	HB-1300	20 3/4	8 19/32	7 1/2	4 3/16	4 3/16	4 39/64	17 5/8	HC-1300	23 1/8	5 1/2	5	11 1/8	11 1/8	
14	HB-1400	22 1/4	9	7 3/4	4 9/16	4 9/16	4 55/64	19 3/16	HC-1400	24 3/4	6	5 3/4	12	12	
15	HB-1500	23	8 13/16	7 5/8	4 3/8	4 3/8	4 3/4	20 1/8	HC-1500	25 1/2	6	5 3/4	12	12	
16	HB-1600	24 1/4	9 1/4	8 1/16	4 9/16	4 9/16	4 63/64	21	HC-1600	27	6	5 3/4	12 5/8	12 5/8	
17	HB-1700	25 1/2	9 13/32	8 1/8	4 11/16	4 11/16	5 5/64	22 1/2	HC-1700	28 1/4	6	5 3/4	12 3/4	12 3/4	
18	HB-1800	26 3/4	9 1/4	8 1/16	4 9/16	4 9/16	4 63/64	23 9/16	HC-1800	28 7/8	6	5 3/4	12 3/4	12 3/4	
19	HB-1900	27 1/2	9 17/32	8 5/16	4 11/16	4 11/16	5 1/64	24 9/16	HC-1900	30	6 1/8	5 3/4	13 1/4	13 1/4	
20	HB-2000	28 1/4	9 5/8	8 1/2	4 9/16	4 9/16	5 11/64	25 1/16	HC-2000	31	6 1/8	5 3/4	13 5/8	13 5/8	
21	HB-2100	30	9 23/32	8 9/16	4 11/16	4 11/16	5 17/64	26 3/4	HC-2100	32 3/4	6 1/4	5 7/8	13 3/4	13 3/4	
22	HB-2200	31 1/4	9 15/16	8 3/4	4 13/16	4 13/16	5 11/32	28	HC-2200	34 1/8	6 3/8	6	14	14	
23	HB-2300	32	9 29/32	8 3/4	4 11/16	4 11/16	5 21/64	28 25/32	HC-2300	34 3/4	6 3/8	6	14	14	
24	HB-2400	33	10 17/32	9 3/8	4 11/16	4 11/16	5 41/64	29 7/8	HC-2400	36	6 1/2	6	15 1/4	15 1/4	

NEED HELP ON BEARINGS—CALL US

COOPER SPLIT ROLLER BEARINGS

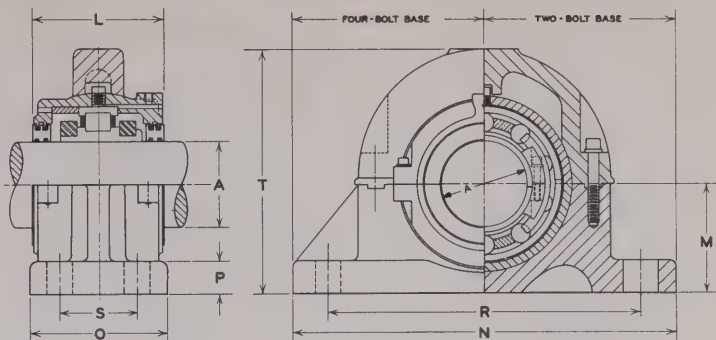
Fig. 2



FOUR-BOLT BASE

HEAVY SERIES

Always specify
whether Fixed
or Expansion
Type required

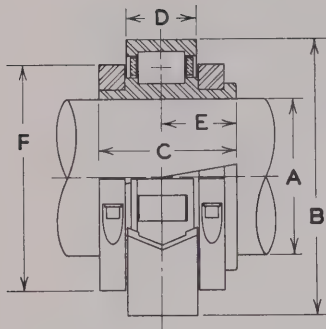
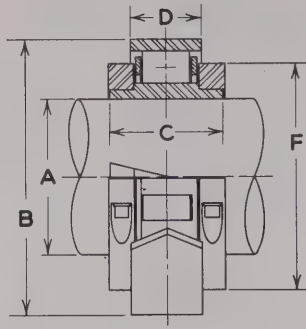


Shaft Size A	Housing Style ★	PILLOW BLOCK											
		Unit Number	M	N	O	P	Bolts		R	* Ro	S	T	Net Wt. Lbs.
							No.	Size					
1 11/16 1 3/4 1 15/16 2	Fig. 1	HSP-111 HSP-112 HSP-115 HSP-200	3 1/4	11 1/8	3 1/4	1	2	5/8	9 1/4	....	....	7 1/4	28
2 3/16 2 1/4 2 1/2 2 5/8	Fig. 1	HSP-203 HSP-204 HSP-207 HSP-208	3 3/4	13	3 3/4	1 1/8	2	3/4	10 3/4	....	....	8 1/2	48
2 11/16 2 3/4 2 15/16 3	Fig. 1	HSP-211 HSP-212 HSP-215 HSP-300	4 1/2	15	4 1/4	1 1/4	2	7/8	12 3/8	....	....	10 1/8	69
3 3/16 3 1/4 3 1/2 3 5/8	Fig. 2	HSP-303 HSP-304 HSP-307 HSP-308	5	16 3/4	6	1 3/8	4	1	14 1/2	....	4	11 1/2	96
3 11/16 3 3/4 3 15/16 4	Fig. 2	HSP-311 HSP-312 HSP-315 HSP-400	5 5/8	18 3/4	6 3/4	1 3/8	4	1	16 1/4	....	4 1/2	13	126
4 3/16 4 1/4 4 1/2 4 5/8	Fig. 2	HSP-403 HSP-404 HSP-407 HSP-408	6 1/2	20	7	1 1/2	4	1	17 3/4	....	4 3/4	14 3/4	192
4 11/16 4 3/4 4 15/16 5	Fig. 2	HSP-411 HSP-412 HSP-415 HSP-500	7 1/8	22	7	1 5/8	4	1	19 1/2	....	4 3/4	16 1/4	244
5 3/16 5 1/4 5 1/2 5 5/8	Fig. 2	HSP-503 HSP-504 HSP-507 HSP-508	8	24	7	2	4	1	21 1/2	....	4 3/4	17 7/8	320
5 11/16 5 3/4 5 15/16 6	Fig. 2	HSP-511 HSP-512 HSP-515 HSP-600	8 1/4	25	8	2	4	1 1/8	22	....	5	18 3/8	372
6 3/16 6 1/4 6 1/2 6 5/8	Fig. 3	HSP-603 HSP-604 HSP-607 HSP-608	10 1/2	23 1/2	9 1/2	1 3/4	4	1 1/4	17 5/8	....	6 3/4	21	460
6 11/16 6 3/4 6 15/16 7	Fig. 3	HSP-611 HSP-612 HSP-615 HSP-700	10 3/4	25	9 1/2	1 3/4	4	1 1/4	18	....	6 1/2	21 1/2	540
8	Fig. 3	HSP-800	12	27	10 1/2	2	4	1 1/4	20	....	7 1/2	24	730
9	Fig. 3	HSP-900	12 3/4	29 1/2	11	2	4	1 1/2	21 3/8	....	7 1/2	25 1/2	860
10	Fig. 3	HSP-1000	14	32	11 1/2	2 1/8	4	1 1/2	23 1/2	....	8	28	1000
11	Fig. 5	HSP-1100	14 3/4	36	13	2 3/8	8	1 1/4	29	21	10	29 3/4	1200
12	Fig. 5	HSP-1200	15 1/2	37 1/4	13	2 3/8	8	1 1/4	30 1/4	22 1/4	10	31	1380
13	Fig. 5	HSP-1300	16 1/2	40	11 1/2	2 1/2	8	1 1/4	32	24	8 1/4	33	1550
14	Fig. 5	HSP-1400	17 3/4	43	14 1/4	2 5/8	8	1 1/2	34	26	11	35 1/2	1850
15	Fig. 5	HSP-1500	18 1/4	43	14 3/4	2 5/8	8	1 1/2	34 3/8	26 7/8	11	36 1/2	1950
16	Fig. 5	HSP-1600	19 1/2	46	14 1/2	2 3/4	8	1 1/2	36 3/4	28 3/4	11	39	2200
17	Fig. 5	HSP-1700	20 3/4	47	14 1/2	2 3/4	8	1 1/2	38 1/4	30 1/4	11	40 1/2	2400
18	Fig. 5	HSP-1800	20 3/4	48 1/2	14 1/2	2 3/8	8	1 1/2	39 1/4	31	11	41 1/4	2500
19	Fig. 5	HSP-1900	21 3/4	49 1/2	14 1/2	3	8	1 1/2	41	32	11	43 1/2	2700
20	Fig. 5	HSP-2000	22 1/2	51	14 3/4	3 1/8	8	1 1/2	42 1/2	33 1/4	11	45	2950
21	Fig. 5	HSP-2100	23 1/4	55	14 1/2	3 1/4	8	1 1/2	44	35	11	46 1/2	3450
22	Fig. 5	HSP-2200	24 1/4	56 1/2	15	3 3/8	8	1 3/4	45 5/8	36 3/8	11	48 1/2	3700
23	Fig. 5	HSP-2300	25	57	15	3 1/2	8	1 3/4	46 3/4	37 3/4	11	50	3800
24	Fig. 5	HSP-2400	26 1/2	59 3/4	15	3 5/8	8	1 3/4	48 3/4	39 3/4	11	53	4150

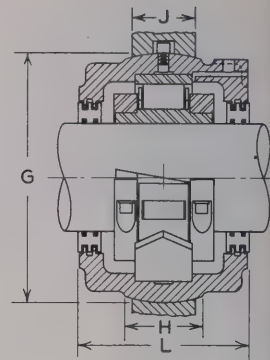
*Ro is "R" dimension for the inside set of bolt holes in the eight bolt bases.

★See pages 190 and 191 for illustration of pillow block.

NEED HELP ON BEARINGS—CALL US

COOPER SPLIT ROLLER BEARINGS**FIXED TYPE "-GR"****EXPANSION TYPE "-EX"****EXTRA
HEAVY
SERIES**

Always specify
whether Fixed
or Expansion
Type required

**CARTRIDGE**

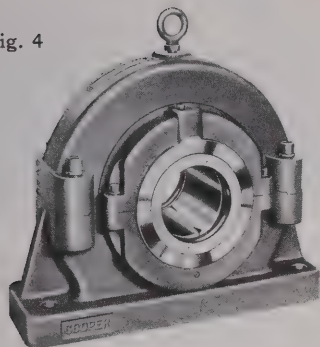
Shaft Size A	BEARING								CARTRIDGE					
	Bearing Number	B O.D. Outer Race	C		D		E	F	Unit Number	G Spherical O.D.	H	J	L	
			Width Inner Race		Width Outer Race								Length on Shaft	
			Fixed	Expan.	Fixed	Expan.							Fixed	Expan.
2 ³ / ₁₆ 2 ¹ / ₄ 2 ⁷ / ₁₆ 2 ¹ / ₂	XHB-203 XHB-204 XHB-207 XHB-208	6	3 ²⁷ / ₃₂	3 ¹ / ₂	2 ¹ / ₈	2 ¹ / ₈	2 ⁵ / ₆₄	4 ³ / ₈	XHC-203 XHC-204 XHC-207 XHC-208	7 ¹ / ₄	2 ³ / ₄	2 ¹ / ₂	5 ⁹ / ₁₆	5 ⁹ / ₁₆
2 ¹¹ / ₁₆ 2 ³ / ₄ 2 ¹⁵ / ₁₆ 3	XHB-211 XHB-212 XHB-215 XHB-300	7 ¹ / ₂	4 ⁷ / ₁₆	3 ¹⁵ / ₁₆	2 ¹ / ₂	2 ¹ / ₂	2 ²⁷ / ₆₄	5 ³ / ₈	XHC-211 XHC-212 XHC-215 XHC-300	9	3 ¹ / ₄	3	6 ⁵ / ₁₆	6 ⁵ / ₁₆
3 ³ / ₁₆ 3 ¹ / ₄ 3 ⁷ / ₁₆ 3 ¹ / ₂	XHB-303 XHB-304 XHB-307 XHB-308	9	5 ⁵ / ₁₆	4 ⁵ / ₈	3	3	2 ⁵⁷ / ₆₄	6 ⁵ / ₁₆	XHC-303 XHC-304 XHC-307 XHC-308	10 ⁷ / ₈	4	3 ¹ / ₂	7.443	7.443
3 ¹¹ / ₁₆ 3 ³ / ₄ 3 ¹³ / ₁₆ 4	XHB-311 XHB-312 XHB-315 XHB-400	10	5 ²⁹ / ₃₂	5 ¹ / ₁₆	3 ⁵ / ₁₆	3 ⁵ / ₁₆	3 ⁷ / ₃₂	7 ¹ / ₈	XHC-311 XHC-312 XHC-315 XHC-400	12 ¹ / ₈	4 ¹ / ₄	3 ³ / ₄	8.070	8.070
4 ³ / ₁₆ 4 ¹ / ₄ 4 ⁷ / ₁₆ 4 ¹ / ₂	XHB-403 XHB-404 XHB-407 XHB-408	10 ¹ / ₂	6 ¹¹ / ₃₂	5 ¹ / ₂	3 ⁷ / ₁₆	3 ⁷ / ₁₆	3 ⁷ / ₁₆	7 ¹⁵ / ₁₆	XHC-403 XHC-404 XHC-407 XHC-408	12 ³ / ₄	4 ¹ / ₂	4	8.695	8.695
4 ¹¹ / ₁₆ 4 ³ / ₄ 4 ¹³ / ₁₆ 5	XHB-411 XHB-412 XHB-415 XHB-500	11	6 ¹ / ₃₂	5 ¹ / ₄	3 ⁵ / ₁₆	2 ⁷ / ₈	3 ⁹ / ₃₂	8 ¹ / ₄	XHC-411 XHC-412 XHC-415 XHC-500	12 ³ / ₄	4 ¹ / ₄	4	8.695	8.695
5 ³ / ₁₆ 5 ¹ / ₄ 5 ⁷ / ₁₆ 5 ¹ / ₂	XHB-503 XHB-504 XHB-507 XHB-508	12	6 ³ / ₈	5 ¹ / ₂	3 ⁹ / ₁₆	3 ³ / ₈	3 ¹⁵ / ₃₂	8 ⁷ / ₈	XHC-503 XHC-504 XHC-507 XHC-508	14	4 ³ / ₈	4 ¹ / ₄	9.070	9.070
5 ¹¹ / ₁₆ 5 ³ / ₄ 5 ¹³ / ₁₆ 6	XHB-511 XHB-512 XHB-515 XHB-600	13	6 ²⁹ / ₃₂	6 ¹ / ₁₆	3 ¹³ / ₁₆	3 ³ / ₁₆	3 ³ / ₄	9 ³ / ₄	XHC-511 XHC-512 XHC-515 XHC-600	15 ¹ / ₈	4 ³ / ₄	4 ¹ / ₂	9.955	9.955
6 ³ / ₁₆ 6 ¹ / ₄ 6 ⁷ / ₁₆ 6 ¹ / ₂	XHB-603 XHB-604 XHB-607 XHB-608	14	7 ¹¹ / ₃₂	6 ⁷ / ₁₆	4 ¹ / ₁₆	4 ¹ / ₁₆	3 ⁶³ / ₆₄	10 ³ / ₈	XHC-603 XHC-604 XHC-607 XHC-608	16 ³ / ₈	5 ¹ / ₄	4 ³ / ₄	10.455	10.455
6 ¹¹ / ₁₆ 6 ³ / ₄ 6 ¹³ / ₁₆ 7	XHB-611 XHB-612 XHB-615 XHB-700	14 ³ / ₄	7 ⁴⁵ / ₆₄	6 ³ / ₄	4 ⁹ / ₃₂	3 ³ / ₈	4 ³ / ₁₆	11 ¹ / ₁₆	XHC-611 XHC-612 XHC-615 XHC-700	17	5 ¹ / ₂	5 ¹ / ₄	11.085	11.085
8	XHB-800	16 ¹ / ₂	8 ¹⁷ / ₆₄	7 ³ / ₁₆	4 ²¹ / ₃₂	3 ²¹ / ₃₂	4 ¹ / ₂	12 ³ / ₈	XHC-800	19 ¹ / ₄	6	5 ³ / ₄	11.710	11.710
9	XHB-900	18 ¹ / ₂	9 ⁵ / ₃₂	7 ⁷ / ₈	5 ³ / ₁₆	4 ⁵ / ₁₆	4 ⁶³ / ₆₄	13 ¹ / ₈	XHC-900	21 ¹ / ₂	6 ³ / ₄	6 ¹ / ₂	13.080	13.080
10	XHB-1000	19	9 ⁵ / ₆₄	8	4 ²⁹ / ₃₂	4 ⁵ / ₃₂	4 ⁵⁹ / ₆₄	15	XHC-1000	22	6 ³ / ₄	6 ¹ / ₂	13.080	13.080
11	XHB-1100	20 ¹ / ₂	9 ²⁹ / ₃₂	8 ³ / ₄	5 ⁵ / ₁₆	5 ⁵ / ₁₆	5 ²³ / ₆₄	16 ¹ / ₂	XHC-1100	23 ¹ / ₂	6 ³ / ₄	6 ¹ / ₂	13.830	13.830
12	XHB-1200	22	10 ¹ / ₂	9 ¹ / ₄	5 ¹ / ₂	5 ¹ / ₂	5 ¹¹ / ₁₆	17 ¹ / ₈	XHC-1200	25 ¹ / ₂	7	6 ¹ / ₂	14.455	14.455
13	XHB-1300	24 ¹ / ₂	11 ²³ / ₃₂	10 ¹ / ₈	6 ⁵ / ₁₆	6 ⁵ / ₁₆	6 ²³ / ₆₄	19 ¹ / ₄	XHC-1300	28 ¹ / ₄	8 ¹ / ₄	6 ³ / ₄	14 ¹ / ₂	14 ¹ / ₂
14	XHB-1400	25 ¹ / ₂	11 ³¹ / ₃₂	10 ⁷ / ₁₆	6 ⁵ / ₁₆	6 ⁵ / ₁₆	6 ³¹ / ₆₄	20 ³ / ₄	XHC-1400	29 ¹ / ₈	8 ¹ / ₄	7 ³ / ₄	14 ¹ / ₂	14 ¹ / ₂
15	XHB-1500	27	12 ³³ / ₆₄	10 ¹⁵ / ₁₆	6 ⁹ / ₁₆	6 ⁹ / ₁₆	6 ⁴⁹ / ₆₄	22	XHC-1500	30 ¹ / ₂	8 ¹ / ₂	8	15 ³ / ₄	15 ³ / ₄
16	XHB-1600	28 ¹ / ₂	13 ¹ / ₈	11 ⁷ / ₁₆	6 ¹³ / ₁₆	6 ¹³ / ₁₆	7 ³ / ₃₂	23 ³ / ₈	XHC-1600	32 ¹ / ₂	9	8 ³ / ₈	16 ³ / ₄	16 ³ / ₄
17	XHB-1700	30	13 ⁹ / ₁₆	11 ¹³ / ₁₆	7 ¹ / ₈	7 ¹ / ₈	7 ¹¹ / ₃₂	24 ³ / ₄	XHC-1700	34 ¹ / ₄	9 ¹ / ₄	8 ³ / ₄	17 ³ / ₈	17 ³ / ₈
18	XHB-1800	31 ¹ / ₂	14	12 ³ / ₁₆	7 ³ / ₈	7 ³ / ₈	7 ³⁷ / ₆₄	26	XHC-1800	36	9 ³ / ₄	9 ¹ / ₄	18 ³ / ₄	18 ³ / ₄
19	XHB-1900	32 ¹ / ₂	14 ¹ / ₃₂	12 ³ / ₈	7 ⁵ / ₁₆	7 ⁵ / ₁₆	7 ³⁷ / ₆₄	27 ¹ / ₂	XHC-1900	36 ³ / ₄	9 ¹ / ₂	9 ¹ / ₄	19	19
20	XHB-2000	33 ¹ / ₂	14 ¹ / ₂	12 ¹³ / ₁₆	7 ³ / ₈	7 ³ / ₈	7 ⁶³ / ₆₄	28 ¹ / ₂	XHC-2000	37 ³ / ₄	9 ¹ / ₂	9 ¹ / ₄	19 ¹ / ₂	19 ¹ / ₂
21	XHB-2100	35 ¹ / ₂	15 ¹ / ₁₆	13 ⁵ / ₁₆	7 ⁵ / ₈	7 ⁵ / ₈	8 ¹ / ₈	30 ¹ / ₈	XHC-2100	40	10	9 ¹ / ₂	20 ¹ / ₄	20 ¹ / ₄
22	XHB-2200	36 ¹ / ₄	14 ²⁹ / ₃₂	13 ³ / ₃₂	7 ¹ / ₂	7 ¹ / ₂	8 ¹ / ₃₂	31 ¹ / ₁₆	XHC-2200	41	10	9 ¹ / ₂	20 ¹ / ₂	20 ¹ / ₂
23	XHB-2300	37 ³ / ₈	15 ¹³ / ₆₄	13 ⁵ / ₈	7 ⁹ / ₁₆	7 ⁹ / ₁₆	8 ³ / ₁₆	32 ¹ / ₃₂	XHC-2300	41 ³ / ₈	10	9 ¹ / ₂	21	21
24	XHB-2400	38 ³ / ₄	15 ¹⁷ / ₃₂	13 ⁷ / ₈	7 ¹³ / ₁₆	7 ¹³ / ₁₆	8 ³ / ₈	33 ¹ / ₁₆	XHC-2400	43 ³ / ₈	10 ¹ / ₄	9 ³ / ₄	21 ¹ / ₂	21 ¹ / ₂

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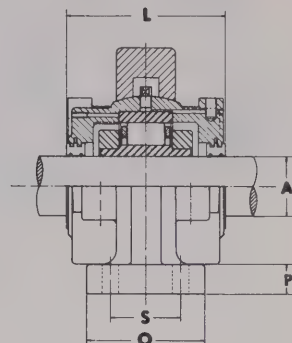
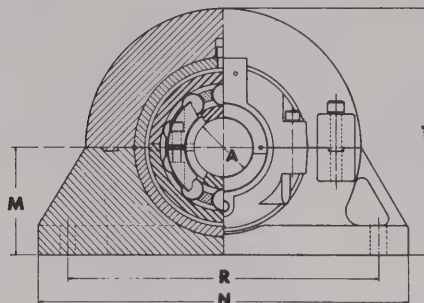
COOPER SPLIT ROLLER BEARINGS

EXTRA HEAVY SERIES

Fig. 4



FOUR-BOLT BASE



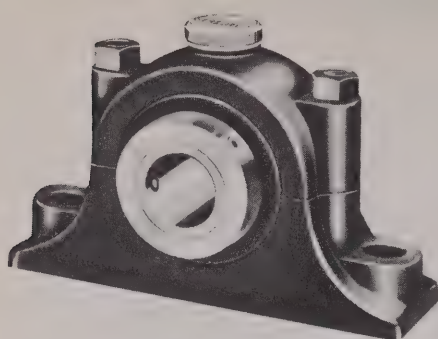
Always specify whether Fixed
or Expansion Type required

Shaft Size A	Housing Style ★	PILLOW BLOCK											
		Unit Number	M	N	O	P	Bolts		R	* Ro	S	T	Net Wt. Lbs.
							No.	Size					
2 1/16 2 1/4 2 1/2 2 3/4	Fig. 4	XHP-203 XHP-204 XHP-207 XHP-208	4 1/2	14	4 1/4	1 1/8	4	3/8	11 1/4	....	2 1/2	9 1/8	75
2 11/16 2 3/4 2 15/16 3	Fig. 4	XHP-211 XHP-212 XHP-215 XHP-300	5 5/8	17 1/2	4 1/2	1 3/8	4	3/4	14 1/2	....	2 3/4	12 1/4	130
3 1/16 3 1/4 3 1/2 3 3/4	Fig. 4	XHP-303 XHP-304 XHP-307 XHP-308	6 3/4	19 1/2	5	1 1/2	4	7/8	16	....	3	14 3/16	220
3 11/16 3 3/4 3 15/16 4	Fig. 4	XHP-311 XHP-312 XHP-315 XHP-400	7 1/2	20 1/4	6	1 1/2	4	3/8	17 1/4	....	3 1/4	16	320
4 1/16 4 1/4 4 1/2 4 3/4	Fig. 4	XHP-403 XHP-404 XHP-407 XHP-408	7 3/4	21	6 1/2	1 1/2	4	1	18	....	3 1/2	16 3/4	370
4 11/16 4 3/4 4 15/16 5	Fig. 4	XHP-411 XHP-412 XHP-415 XHP-500	8	21 1/2	6 1/2	1 7/8	4	1	18 1/2	....	3 3/4	17 1/8	400
5 1/16 5 1/4 5 1/2 5 3/4	Fig. 4	XHP-503 XHP-504 XHP-507 XHP-508	9	24 1/2	7	2 1/8	4	1 1/8	20 1/4	....	4	19	490
5 11/16 5 3/4 5 15/16 6	Fig. 4	XHP-511 XHP-512 XHP-515 XHP-600	10	26 1/4	8	2 1/4	4	1 1/4	22	....	4 3/4	21	665
6 1/16 6 1/4 6 1/2 6 3/4	Fig. 4	XHP-603 XHP-604 XHP-607 XHP-608	10 1/2	29	9	2 3/8	4	1 1/4	24 3/4	....	5 1/2	22 1/2	750
6 11/16 6 3/4 6 15/16 7	Fig. 4	XHP-611 XHP-612 XHP-615 XHP-700	11	30	10	2 1/2	4	1 1/4	25	....	6	22 7/8	848
8	Fig. 4	XHP-800	12 1/4	33	10 1/2	2 5/8	4	1 1/2	25	....	6 3/4	25 3/4	1132
9	Fig. 3	XHP-900	13 3/4	37 1/2	11	3	4	1 3/4	29	....	7	28 3/4	1580
10	Fig. 3	XHP-1000	15 1/2	36	16	3	4	1 3/4	26 3/8	....	12	31	1800
11	Fig. 5	XHP-1100	16 3/4	40 1/2	16	3	8	1 1/2	32	24	12 1/2	33 1/2	2200
12	Fig. 5	XHP-1200	18	43	16 1/2	3	8	1 1/2	34 1/2	26 1/2	13	36	2500
13	Fig. 5	XHP-1300	20 3/8	47	14	3 1/8	8	1 1/2	38 1/2	30	10 1/2	40 3/4	2800
14	Fig. 5	XHP-1400	21	49	14 1/2	3 1/2	8	1 3/4	39 3/8	30 3/8	10 1/2	42	3400
15	Fig. 5	XHP-1500	22	50	15 1/2	3 5/8	8	1 3/4	40 3/4	31 3/4	11 1/2	44	3900
16	Fig. 5	XHP-1600	23 1/2	54	16 1/2	3 3/8	8	1 3/4	44	35	12 1/2	47	4450
17	Fig. 5	XHP-1700	24 3/4	56	17 1/2	4	8	2	46 5/8	36 3/8	13 1/4	49 1/2	5050
18	Fig. 5	XHP-1800	26	62	18 1/2	4 1/4	8	2	50 3/4	36 3/4	14 1/4	52	5950
19	Fig. 5	XHP-1900	26 1/2	62 1/2	18 1/2	4 5/8	8	2	51 3/4	37 3/4	14 1/4	53	6350
20	Fig. 5	XHP-2000	27 1/2	64 3/4	19	4 3/8	8	2	53 1/4	39 1/4	14 1/2	55	6700
21	Fig. 5	XHP-2100	29 1/4	70 1/2	19 1/2	4 7/8	8	2 1/4	56 1/2	41 1/2	14 1/2	58 1/2	7850
22	Fig. 5	XHP-2200	30	71 3/4	20	4 1/2	8	2 1/4	57 1/2	42 1/2	15 1/2	60	8150
23	Fig. 5	XHP-2300	31	72 1/4	20 1/2	4 5/8	8	2 1/4	59 1/2	44	16	62	8900
24	Fig. 5	XHP-2400	31 3/4	75	21	4 5/8	8	2 1/4	60 3/4	45 1/2	16 1/2	63 1/2	9650

*Ro is "R" dimension for the inside set of bolt holes in the eight bolt bases.

★See pages 190 and 191 for illustration of pillow block.

NEED HELP ON BEARINGS—CALL US

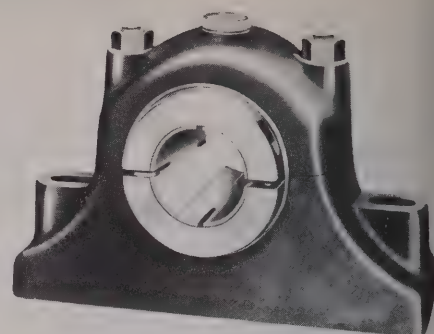


Double Interlock Type
Compact - - Moderately priced

DODGE-TIMKEN PILLOW BLOCKS

Double Interlock Series are fitted with special duplex Timken bearings with extended inner race. Set screws through collars lock both ends of bearing race to shaft.

Type "C" Series have a slotted and threaded sleeve ground inside and out which extends completely through the bearing. Locking collars at both ends of the sleeve insures firm fastening to the shaft.



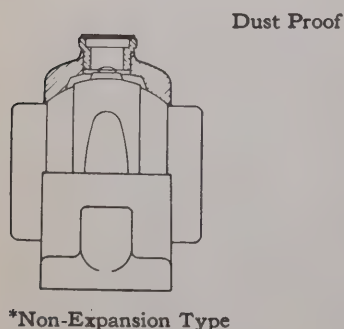
Type C
Triple Sealed for
Extremely Dirty Conditions

DOUBLE INTERLOCK TYPE

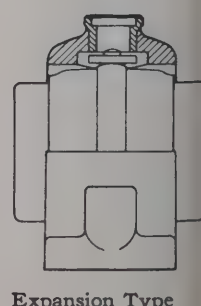
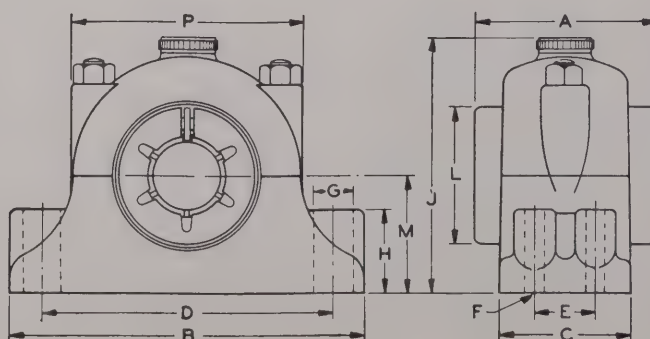
Shaft Size	Other Sizes Available	Wt.	A	B	2-Bolt Base		4-Bolt Base			D	G	H	J	L	M	P
					C	F-Bolt	C	E	F-Bolt							
1 ⁷ / ₁₆	1 ³ / ₈	11	3	8	2 ¹ / ₁₆	1 ¹ / ₂	.....	.....	.....	6 ¹ / ₂	3 ⁴ / ₄	1 ¹ / ₄	5 ³ / ₁₆	2 ³ / ₄	2 ³ / ₈	5 ³ / ₈
1 ¹¹ / ₁₆	1 ¹ / ₂ , 1 ⁵ / ₈	14	3 ³ / ₈	9	2 ¹ / ₄	1 ¹ / ₂	.....	.....	.....	7 ¹ / ₂	3 ⁴ / ₄	1 ³ / ₈	5 ⁵ / ₈	3 ³ / ₁₆	2 ⁵ / ₈	5 ¹⁵ / ₁₆
1 ¹⁵ / ₁₆	1 ³ / ₄ , 1 ⁷ / ₈ , 2	18	3 ¹ / ₂	10	2 ³ / ₈	5 ⁵ / ₈	.....	.....	.....	8 ¹ / ₄	1 ⁵ / ₁₆	1 ¹ / ₂	6 ¹ / ₁₆	3 ¹ / ₁₆	2 ⁷ / ₈	6 ¹ / ₂
2 ³ / ₁₆	.....	21	3 ³ / ₄	11	2 ¹ / ₂	5 ⁵ / ₈	.....	.....	.....	9	1 ⁵ / ₁₆	1 ⁹ / ₁₆	6 ⁷ / ₁₆	3 ³ / ₄	3	7 ³ / ₁₆
2 ⁷ / ₁₆	2 ¹ / ₄ , 2 ¹ / ₂	27	4	12	2 ⁵ / ₈	5 ⁵ / ₈	.....	Δ1 ³ / ₄	1 ¹ / ₂	10	1	1 ³ / ₄	6 ⁷ / ₈	4 ¹ / ₁₆	3 ¹ / ₄	7 ⁹ / ₁₆
2 ¹⁵ / ₁₆	2 ¹ / ₁₆ , 2 ³ / ₄ , 3	40	4 ¹ / ₂	13 ¹ / ₂	2 ¹⁵ / ₁₆	3 ⁴ / ₈	.....	Δ1 ⁷ / ₈	5 ⁵ / ₈	11 ¹ / ₄	1 ¹ / ₈	2	7 ⁷ / ₈	4 ²³ / ₃₂	3 ³ / ₄	8 ¹¹ / ₁₆
3 ⁷ / ₁₆	3 ³ / ₁₆ , 3 ¹ / ₄ , 3 ¹ / ₂	70	5	16	3 ⁷ / ₁₆	7 ⁵ / ₈	.....	Δ2	3 ⁴ / ₄	13 ¹ / ₂	1 ⁵ / ₁₆	2 ¹ / ₄	9 ⁷ / ₁₆	5 ⁷ / ₁₆	4 ¹ / ₂	10 ³ / ₈
3 ¹⁵ / ₁₆	4	110	6 ¹ / ₄	17 ¹ / ₂	.....	.....	4 ¹ / ₂	2	3 ⁴ / ₄	14 ¹ / ₂	1 ¹ / ₈	2 ³ / ₄	10 ⁹ / ₁₆	5 ¹⁵ / ₁₆	5	11 ¹ / ₂
4 ⁷ / ₁₆	4 ¹ / ₂	135	6 ³ / ₄	19	.....	.....	4 ⁵ / ₈	2 ¹ / ₄	3 ⁴ / ₄	16	1 ¹ / ₈	3	11 ¹¹ / ₁₆	6 ⁷ / ₁₆	5 ³ / ₄	11 ³ / ₄
4 ¹⁵ / ₁₆	5	180	7 ¹ / ₄	20 ¹ / ₂	.....	.....	5	2 ¹ / ₂	7 ⁵ / ₈	17 ³ / ₄	1 ⁵ / ₁₆	3 ³ / ₄	13	7 ⁷ / ₁₆	6 ¹ / ₄	13 ³ / ₈

TYPE C PILLOW BLOCKS

Shaft Size	Other Sizes Available	Wt.	A	B	C	D	2-Bolt Base F-Bolts	4-Bolt Base		G	H	J	L	M	P
								E	F-Bolts						
1 ⁷ / ₁₆	1 ³ / ₁₆ , 1 ¹ / ₄ , 1 ⁵ / ₁₆	22	4 ¹ / ₂	9	3	7 ¹ / ₄	1 ¹ / ₂	.....	.....	1	2 ¹ / ₈	6 ¹ / ₄	3 ¹ / ₈	2 ⁷ / ₈	5 ⁷ / ₈
1 ¹¹ / ₁₆	1 ¹ / ₂ , 1 ³ / ₄	29	4 ⁷ / ₈	9 ¹ / ₂	3 ³ / ₈	7 ³ / ₄	1 ¹ / ₂	.....	.....	1	2 ³ / ₈	6 ¹³ / ₁₆	3 ¹ / ₂	3 ¹ / ₈	6 ¹ / ₂
1 ¹⁵ / ₁₆	.....	35	5 ¹ / ₄	11	3 ¹ / ₂	8 ³ / ₄	5 ⁵ / ₈	.....	.....	1 ¹ / ₄	2 ¹ / ₂	7 ¹ / ₈	3 ⁷ / ₈	3 ¹ / ₄	7 ³ / ₈
2 ³ / ₁₆	2, 2 ¹ / ₄	49	5 ³ / ₄	12	4	9 ³ / ₄	5 ⁵ / ₈	.....	.....	1 ¹ / ₄	2 ⁷ / ₈	8	4 ³ / ₈	3 ³ / ₄	8
2 ⁷ / ₁₆	2 ³ / ₈	61	6	13 ¹ / ₄	4 ¹ / ₄	10 ³ / ₄	3 ⁴ / ₄	†2 ¹ / ₂	5 ⁵ / ₈	1 ¹ / ₂	3	8 ⁹ / ₁₆	4 ⁵ / ₈	4	8 ⁷ / ₈
2 ¹⁵ / ₁₆	2 ¹ / ₂ , 2 ¹¹ / ₁₆	84	6 ¹ / ₂	14 ¹ / ₄	4 ³ / ₄	11 ³ / ₄	3 ⁴ / ₄	†2 ³ / ₄	5 ⁵ / ₈	1 ¹ / ₂	3 ³ / ₄	9 ⁷ / ₈	5 ⁷ / ₁₆	4 ³ / ₄	9 ⁷ / ₈
3 ⁷ / ₁₆	3, 3 ³ / ₁₆	130	7	16 ³ / ₄	5 ¹ / ₂	13 ³ / ₄	7 ⁵ / ₈	†3 ¹ / ₄	3 ⁴ / ₄	1 ³ / ₄	4	11 ³ / ₈	5 ¹⁵ / ₁₆	5 ¹ / ₂	11 ⁵ / ₈
3 ¹⁵ / ₁₆	3 ¹ / ₂ , 3 ³ / ₄ , 4	240	9 ¹ / ₂	19	7	15 ¹ / ₂	.....	3 ¹ / ₄	7 ⁵ / ₈	1 ³ / ₄	4	13 ³ / ₈	7 ⁷ / ₁₆	6 ³ / ₈	13 ⁷ / ₈
4 ⁷ / ₁₆	4 ¹ / ₂	290	10	20	7 ¹ / ₂	16 ¹ / ₂	.....	3 ¹ / ₂	7 ⁵ / ₈	1 ³ / ₄	4	14 ¹ / ₂	8 ⁷ / ₁₆	7 ¹ / ₄	15 ¹ / ₄
4 ¹⁵ / ₁₆	5	420	11 ¹ / ₄	23	8 ¹ / ₄	18 ³ / ₄	.....	3 ³ / ₄	1	2 ¹ / ₈	4 ¹ / ₄	15 ⁵ / ₈	9 ³ / ₈	7 ¹ / ₂	16 ³ / ₄



*Non-Expansion Type



Expansion Type

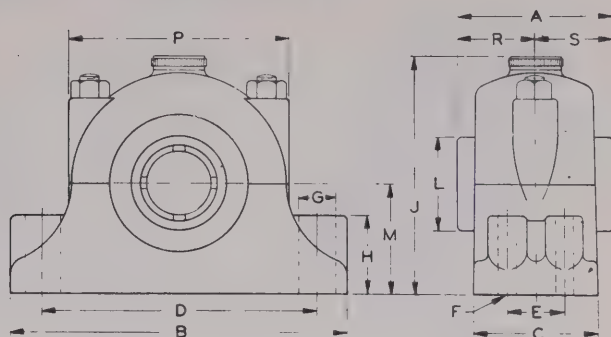
*Non-Expansion Pillow Blocks will be regularly furnished unless otherwise specified.

†2-Bolt base regularly furnished. Sizes 2¹/₁₆" to 3¹/₄" inclusive can be furnished with 4-Bolt base when specified.

Δ2-Bolt base regularly furnished. Sizes 2¹/₄" to 3¹/₂" inclusive can be furnished with 4-Bolt base when specified.

DODGE-TIMKEN PILLOW BLOCKS

Dodge-Timken Special Duty Pillow Blocks are particularly designed for installations requiring extra precision and high load capacities.



SPECIAL DUTY SERIES

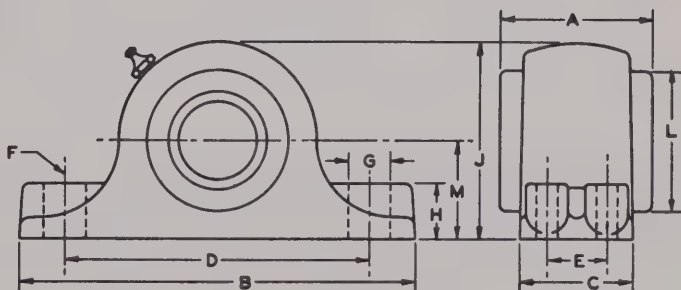
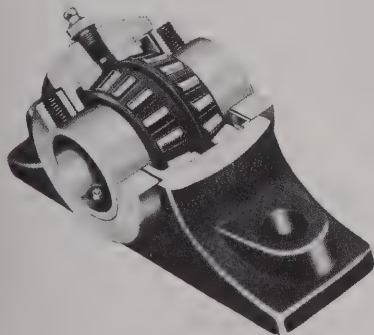
Shaft Size	Other Sizes Available	Wt.	A	B	C	D	2-Bolt Base F-Bolt	4-Bolt Base		G	H	J	L	M	P	R	S
								E	F-Bolt								
1 7/16	1 3/8, 1 1/2	22	4	9	3	7 1/4	1 1/2	.....	.....	1	2 1/8	6 1/4	2 7/16	2 7/8	5 7/8	1 3/16	2 3/16
1 11/16	1 5/8, 1 3/4	27	4 1/8	9 1/2	3 3/8	7 3/4	1 1/2	.....	.....	1	2 3/8	6 13/16	2 13/16	3 1/8	6 1/2	1 7/8	2 1/4
1 15/16	1 7/8, 2	34	4 1/4	11	3 1/2	8 3/4	5/8	.....	.....	1 1/4	2 1/2	7 1/8	3 1/16	3 1/4	7 3/8	1 11/16	2 5/16
2 3/16	2 1/8, 2 1/4	46	4 9/16	12	4	9 3/4	5/8	.....	.....	1 1/4	2 7/8	8	3 7/16	3 3/4	8	2 1/16	2 1/2
2 7/16	2 3/8, 2 1/2	58	5 1/16	13 1/4	4 1/4	10 3/4	3/4	2 1/2	5/8	1 1/2	3	8 9/16	3 13/16	4	8 7/8	2 5/16	2 3/4
2 15/16	2 5/8, 2 11/16, 2 3/4, 3	81	5 3/4	14 1/4	4 3/4	11 3/4	3/4	2 3/4	5/8	1 1/2	3 3/4	9 7/8	4 7/16	4 3/4	9 7/8	2 5/8	3 1/8
3 7/16	3 3/16, 3 3/8, 3 1/2	135	6 3/8	16 3/4	5 1/2	13 3/4	7/8	3 1/4	3/4	1 3/4	4	11 3/8	5 1/16	5 1/2	11 5/8	2 15/16	3 7/16
3 15/16	3 11/16, 3 3/4, 3 7/8, 4	230	8 1/2	19	7	15 1/2	..	3 1/4	7/8	1 3/4	4	13 3/8	6 1/4	6 3/8	13 7/8	4 1/4	4 1/4
4 7/16	4 1/2	280	9 1/2	20	7 1/2	16 1/2	..	3 1/2	7/8	1 3/4	4	14 1/2	7 1/4	7 1/4	15 1/4	4 3/4	4 3/4
4 15/16	5	370	10 1/2	23	8 1/4	18 3/4	..	3 3/4	1	2 1/8	4 1/4	15 5/8	8	7 1/2	16 3/4	5 1/4	5 1/4
6	5 7/16, 5 15/16	585	12	26 3/4	9 1/4	22 1/2	..	5	1 1/8	2 1/4	5	19	9 1/2	9	18 3/4	6	6
7	6 1/2, 6 15/16	1050	13 1/2	34 3/8	10 1/4	29	..	5 1/2	1 1/2	3	6	23	11	11 1/4	23	6 3/4	6 3/4
8	7 15/16	1550	14 1/2	38 3/4	11 1/4	32 1/4	..	6	1 3/4	3 1/6	7	26	12 1/2	12 1/2	25 1/2	7 1/4	7 1/4
10	8 1/16 to 10	2500	17	45 1/2	15	38	..	10	2	3 1/2	5	30 1/4	14 5/8	14 1/2	32	8 1/2	8 1/2
12	10 1/16 to 12	3600	18 1/2	51 1/2	17 1/2	44	..	12	2	3 1/2	5 3/4	35 11/16	17	17 1/4	36 1/2	9 1/4	9 1/4

*Non-Expansion Pillow Blocks will be regularly furnished unless otherwise specified.

†2-Bolt Base regularly furnished. Sizes 2 3/8" to 3 1/2" inclusive can be furnished with 4-Bolt Base when specified.

When ordering 5 1/16" or larger bearings, specify R.P.M.

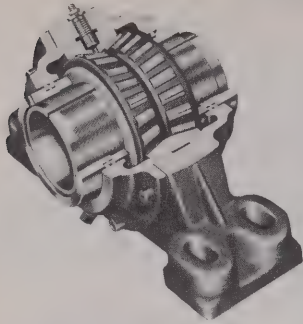
TYPE E SERIES



Shaft Size	Other Sizes Available	Wt.	A	B	C	D	2-Bolt Base F Bolts	4-Bolt Base		G	H	J	L	M
								E	F Bolts					
1 3/16	1 1/4	5	2 3/4	6	1 7/8	4 3/4	3/8	.....	.....	9/16	7/8	3	2 1/4	1 1/2
1 7/16	1 3/8	7	3	7 3/8	2 7/8	5 3/4	1 1/2	.....	.....	3/4	1 1/8	3 3/4	2 3/4	1 7/8
1 11/16	1 1/2, 1 5/8	10	3 3/8	7 7/8	2 3/8	6 1/4	1 1/2	.....	.....	3/4	1 1/4	4 1/4	3 3/16	2 1/8
1 15/16	1 3/4, 1 7/8, 2	12	3 1/2	8 7/8	2 1/2	7	5/8	.....	.....	7/8	1 3/8	4 1/2	3 7/16	2 1/4
2 3/16	.....	15	3 3/4	9 5/8	2 5/8	7 3/4	5/8	.....	.....	7/8	1 1/2	5	3 3/4	2 1/2
2 7/16	2 1/4, 2 1/2	19	4	10 1/2	2 7/8	8 1/2	5/8	.....	.....	7/8	1 5/8	5 1/2	4 1/16	2 3/4
2 15/16	2 11/16, 2 3/4, 3	28	4 1/2	12	3 3/8	9 1/2	3/4	.....	.....	1	1 7/8	6 1/4	4 23/32	3 1/8
3 7/16	3 3/16, 3 1/4, 3 1/2	45	5	14	3 3/8	11	7/8	.....	.....	1 3/16	2 1/4	7 1/2	5 1/16	3 3/4
3 15/16	4	73	6 1/4	15 1/4	4 5/8	12 1/2	.....	2 1/4	3/4	1 1/4	2 7/16	8 1/2	5 15/16	4 1/4
4 7/16	4 1/2	91	6 3/4	16 1/2	4 3/4	13 1/2	.....	2 1/2	3/4	1 1/8	2 3/4	9 3/8	6 7/16	4 3/4
4 15/16	5	145	7 1/4	18 1/2	5 3/8	15 1/2	.....	2 3/4	7/8	1 1/4	3	10 7/8	7 1/16	5 1/2

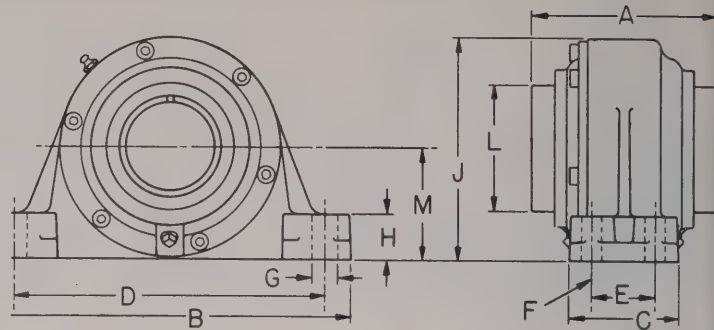
Furnished in Non-Expansion type only.

NEED HELP ON BEARINGS—CALL US

DODGE ALL STEEL PILLOW BLOCKS**CAST STEEL
HOUSING****NEW ADAPTER
MOUNTING**

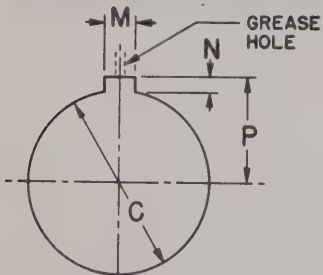
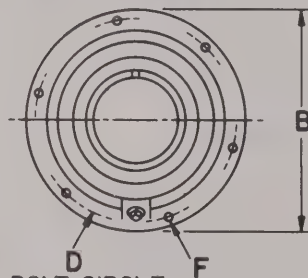
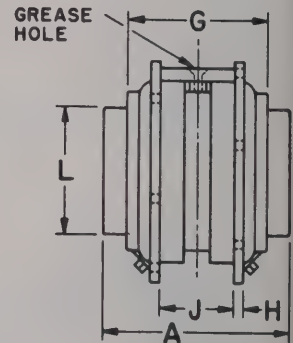
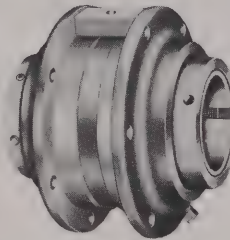
CAST STEEL
HOUSING
for
HEAVY SHOCK
LOADS

COMPACT
MINIMUM
WEIGHT
with
MAXIMUM
STRENGTH



Shaft Size	Other Sizes Available	Wt.	A	B	C	D	4 Bolt Base		G	H	J	L	M
							E	F Bolt					
2 ¹⁵ / ₁₆	2 ¹¹ / ₁₆ , 3	45	6 ¹ / ₂	12 ¹ / ₂	3 ³ / ₄	10 ¹ / ₂	2	5 ⁵ / ₈	1 ⁵ / ₁₆	1 ⁵ / ₈	7 ¹ / ₂	4	3 ³ / ₄
3 ⁷ / ₁₆	3 ¹ / ₄ , 3 ¹ / ₂	75	7 ³ / ₄	14 ¹ / ₂	4 ¹ / ₂	12 ¹ / ₄	2 ³ / ₈	3 ³ / ₄	1 ¹ / ₈	1 ⁷ / ₈	9	4 ¹¹ / ₁₆	4 ¹ / ₂
3 ¹⁵ / ₁₆	4	95	8	15 ³ / ₄	4 ³ / ₄	13 ¹ / ₂	2 ³ / ₄	3 ³ / ₄	1 ¹ / ₈	2	9 ³ / ₄	5 ⁷ / ₁₆	4 ¹⁵ / ₁₆
4 ⁷ / ₁₆	4 ¹ / ₂	145	9 ³ / ₄	18	5 ¹ / ₄	15 ¹ / ₄	3 ³ / ₄	7 ³ / ₈	1 ⁵ / ₁₆	2 ¹ / ₄	11 ³ / ₈	6 ¹ / ₁₆	5 ³ / ₄
4 ¹⁵ / ₁₆	5	170	9 ³ / ₄	19 ¹ / ₂	5 ⁷ / ₈	16 ¹ / ₂	3 ³ / ₈	1	1 ¹ / ₂	2 ¹ / ₂	12	6 ¹³ / ₁₆	6
5 ⁷ / ₁₆	.....	220	10 ¹ / ₂	21 ¹ / ₄	6 ¹ / ₄	18 ¹ / ₄	3 ³ / ₄	1	1 ¹ / ₂	2 ³ / ₄	13 ¹ / ₄	7 ¹ / ₂	6 ⁵ / ₈
6	5 ¹⁵ / ₁₆	260	11 ¹ / ₄	23 ¹ / ₂	6 ³ / ₄	20 ¹ / ₂	4 ¹ / ₄	1 ¹ / ₈	1 ⁹ / ₁₆	3	13 ³ / ₄	8	7
7	6 ⁷ / ₁₆ , 6 ¹ / ₂ , 6 ¹⁵ / ₁₆	330	12 ¹ / ₄	26 ¹ / ₂	7 ¹ / ₂	23	4 ¹ / ₂	1 ¹ / ₄	1 ⁷ / ₈	3 ¹ / ₄	15 ³ / ₈	9 ¹ / ₂	7 ³ / ₄
8	7 ¹ / ₂ , 7 ¹⁵ / ₁₆	560	13 ¹ / ₂	30 ¹ / ₂	8 ³ / ₄	26 ¹ / ₄	5 ¹ / ₄	1 ¹ / ₂	2 ¹ / ₄	4	18 ³ / ₄	10 ³ / ₄	9 ¹ / ₂
10	9	1010	15 ¹ / ₂	38 ¹ / ₂	11 ³ / ₄	33	7	2	3	5	23 ¹ / ₄	13 ¹ / ₈	12

Non-Expansion Pillow Blocks will be regularly furnished unless otherwise specified.

DODGE-TIMKEN ALL-STEEL CARTRIDGE UNITS**FRAME OPENING****BOLT CIRCLE**

The Dodge-Timken All-Steel Cartridge Unit is self-aligning and is available in both non-expansion and expansion types. The cast steel end plates are fastened directly to the machine frame by cap screws. Since the holes are not opposite, drilling and tapping must

be done from each side. The end plates can be used as jigs or if requested, exact hole locations will be furnished. Shims are furnished for use between the machine frame and the end plates for adjustment of the self-aligning fit.

Shaft Size	Other Sizes Available	Wt.	A	B	** C Frame Bore	D Bolt Circle	* F Cap Screw		G	H	▲ J	L	M	N	P +.015-.000
							No.	Diam.							
2 ¹⁵ / ₁₆	2 ¹¹ / ₁₆ , 3	30	6 ¹ / ₂	7 ¹ / ₈	5.697	6 ³ / ₈	6	3 ³ / ₈	4 ⁷ / ₈	3 ³ / ₈	2 ³ / ₁₆	4	1	5 ⁵ / ₈	3.429
3 ⁷ / ₁₆	3 ¹ / ₄ , 3 ¹ / ₂	55	7 ³ / ₄	8 ³ / ₄	7.197	7 ⁷ / ₈	6	7 ¹ / ₁₆	6 ¹ / ₃₂	7 ¹ / ₁₆	2 ³ / ₄	4 ¹¹ / ₁₆	1	5 ⁵ / ₈	4.189
3 ¹⁵ / ₁₆	4	65	8	9 ¹ / ₂	7.885	8 ⁵ / ₈	6	7 ¹ / ₁₆	5 ³¹ / ₃₂	7 ¹ / ₁₆	3 ⁷ / ₈	5 ⁷ / ₁₆	1	5 ⁵ / ₈	4.536
4 ⁷ / ₁₆	4 ¹ / ₂	110	9 ¹ / ₄	10 ¹⁵ / ₁₆	9.072	9 ⁷ / ₈	6	1 ¹ / ₂	7	1 ¹ / ₂	3 ¹ / ₂	6 ¹ / ₁₆	1	5 ⁵ / ₈	5.133
4 ¹⁵ / ₁₆	5	125	9 ³ / ₄	11 ³ / ₄	9.885	10 ¹³ / ₁₆	6	1 ¹ / ₂	7 ¹⁷ / ₃₂	1 ¹ / ₂	3 ³ / ₄	6 ¹³ / ₁₆	1 ¹ / ₄	3 ³ / ₄	5.653
5 ⁷ / ₁₆	.....	155	10 ¹ / ₂	12 ⁷ / ₈	10.947	12	6	1 ¹ / ₂	7 ¹³ / ₁₆	5 ⁵ / ₈	4 ¹ / ₄	7 ¹ / ₂	1 ¹ / ₂	3 ³ / ₄	6.172
6	5 ¹⁵ / ₁₆	180	11 ¹ / ₄	13 ¹ / ₂	11.291	12 ⁷ / ₁₆	6	5 ⁵ / ₈	8 ¹ / ₂	5 ⁵ / ₈	4 ⁷ / ₈	8	1 ¹ / ₂	3 ³ / ₄	6.346
7	6 ⁷ / ₁₆ , 6 ¹ / ₂ , 6 ¹⁵ / ₁₆	225	12 ¹ / ₄	15	12.885	13 ¹⁵ / ₁₆	8	5 ⁵ / ₈	9 ¹ / ₈	5 ⁵ / ₈	5 ¹ / ₄	9 ¹ / ₂	1 ¹ / ₂	3 ³ / ₄	7.149
8	7 ¹ / ₂ , 7 ¹⁵ / ₁₆	385	13 ¹ / ₂	18 ¹ / ₈	15.517	17	8	5 ⁵ / ₈	10 ¹ / ₄	5 ⁵ / ₈	5 ³ / ₄	10 ³ / ₄	2	1	8.720
10	9	585	15 ¹ / ₂	21 ³ / ₄	18.635	20 ¹ / ₈	8	7 ⁷ / ₈	11 ⁵ / ₁₆	7 ⁷ / ₈	7 ¹ / ₂	13 ¹ / ₈	2	1	10.290

*Not furnished. Hollow head type required.

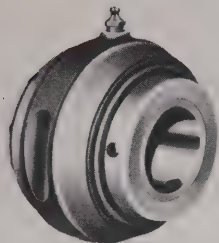
**+.002-.000

▲+.005-.005 frame width.

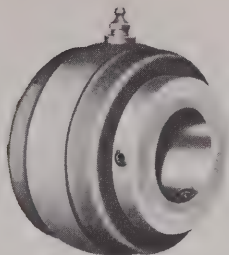
Non-Expansion units will be regularly furnished unless otherwise specified.

NEED HELP ON BEARINGS—CALL US

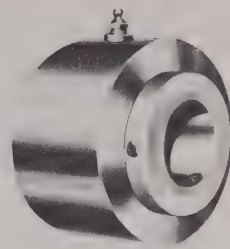
DODGE-TIMKEN UNIT MOUNTS



D-Unit



S-1 Unit



B-1 Unit

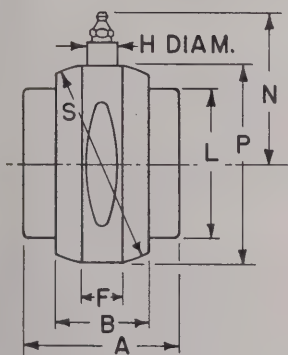
Each of the three styles of Dodge Timken Unit Mounts illustrated are supplied in Double Interlock, Type C, and Special Duty Series.

Style D Units are for non-expansion type pillow blocks, self-aligning.

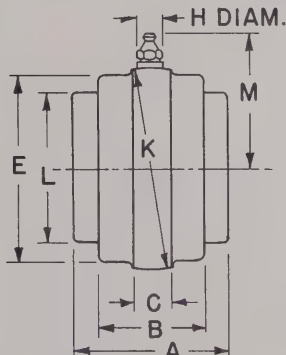
Style S-1 Units are for expansion type pillow blocks, self-aligning.

Style B-1 Units are not used in any Dodge Timken complete pillow block but are designed for machines where bored holes can be provided for reception of the cartridge. The bearing is not self-aligning.

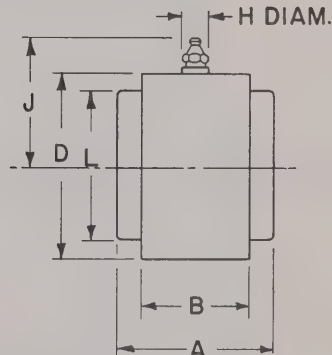
DODGE-TIMKEN DOUBLE INTERLOCK UNIT MOUNTS



D Unit



S-1 Unit

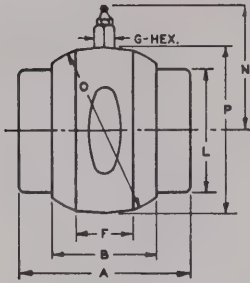
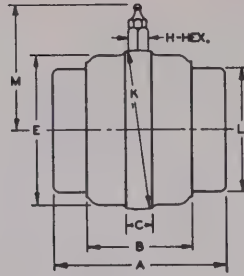
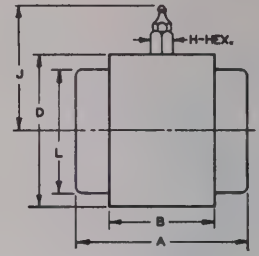


B-1 Unit

Shaft Size	Other Sizes Available	Wt.	A	B	C	D *	E	F	H	J	K	L	M	N	P	S
$1\frac{7}{16}$	$1\frac{3}{8}$	4.5	3	$2\frac{1}{16}$	$\frac{3}{4}$	$3\frac{7}{16}$	$3\frac{5}{16}$	$1\frac{9}{16}$	$1\frac{1}{16}$	$2\frac{3}{8}$	$3\frac{5}{8}$	$2\frac{3}{4}$	$2\frac{7}{16}$	$3\frac{1}{16}$	$3\frac{5}{8}$	$3\frac{27}{32}$
$1\frac{11}{16}$	$1\frac{1}{2}, 1\frac{5}{8}$	6	$3\frac{3}{8}$	$2\frac{5}{16}$	$\frac{3}{4}$	$3\frac{15}{16}$	$3\frac{13}{16}$	$1\frac{29}{64}$	$1\frac{1}{16}$	$2\frac{5}{8}$	$4\frac{1}{8}$	$3\frac{3}{16}$	$2\frac{11}{16}$	$3\frac{5}{16}$	$4\frac{3}{32}$	$4\frac{11}{32}$
$1\frac{15}{16}$	$1\frac{3}{4}, 1\frac{7}{8}, 2$	8	$3\frac{1}{2}$	$2\frac{7}{16}$	$\frac{7}{8}$	$4\frac{1}{4}$	$4\frac{3}{16}$	$1\frac{13}{32}$	$1\frac{1}{16}$	$2\frac{3}{4}$	$4\frac{9}{16}$	$3\frac{7}{16}$	$2\frac{15}{16}$	$3\frac{15}{32}$	$4\frac{7}{16}$	$4\frac{21}{32}$
$2\frac{3}{16}$		10	$3\frac{3}{4}$	$2\frac{9}{16}$	$\frac{7}{8}$	$4\frac{5}{8}$	$4\frac{9}{16}$	$1\frac{21}{32}$	$1\frac{1}{16}$	$2\frac{15}{16}$	5	$3\frac{3}{4}$	$3\frac{1}{8}$	$3\frac{5}{8}$	$4\frac{23}{32}$	5
$2\frac{7}{16}$	$2\frac{1}{4}, 2\frac{1}{2}$	12	4	$2\frac{3}{4}$	$\frac{7}{8}$	5	$4\frac{7}{8}$	$1\frac{23}{32}$	$1\frac{1}{16}$	$3\frac{1}{8}$	$5\frac{1}{16}$	$4\frac{1}{16}$	$3\frac{1}{4}$	$3\frac{13}{16}$	$5\frac{5}{32}$	$5\frac{7}{16}$
$2\frac{15}{16}$	$2\frac{11}{16}, 2\frac{3}{4}, 3$	17	$4\frac{1}{2}$	3	$1\frac{1}{8}$	$5\frac{7}{8}$	$5\frac{5}{8}$	$1\frac{53}{64}$	$1\frac{1}{16}$	$3\frac{9}{16}$	$6\frac{1}{16}$	$4\frac{23}{32}$	$3\frac{11}{16}$	$4\frac{5}{32}$	$5\frac{13}{16}$	$6\frac{3}{32}$
$3\frac{1}{16}$	$3\frac{3}{16}, 3\frac{1}{4}, 3\frac{1}{2}$	31	5	$3\frac{1}{2}$	$1\frac{1}{4}$	$7\frac{1}{8}$	$6\frac{15}{16}$	$2\frac{1}{32}$	$1\frac{1}{16}$	$4\frac{1}{16}$	$7\frac{3}{8}$	$5\frac{7}{16}$	$4\frac{5}{16}$	$4\frac{7}{8}$	$7\frac{1}{32}$	$7\frac{1}{2}$
$3\frac{15}{16}$	4	46	$6\frac{1}{4}$	$4\frac{1}{2}$	$1\frac{3}{8}$	$7\frac{7}{8}$	$7\frac{9}{16}$	$2\frac{1}{32}$	$\frac{7}{8}$	$4\frac{11}{16}$	8	$5\frac{15}{16}$	$4\frac{3}{4}$	$5\frac{5}{16}$	$8\frac{1}{8}$	$8\frac{3}{8}$
$4\frac{7}{16}$	$4\frac{1}{2}$	71	$6\frac{3}{4}$	$4\frac{5}{8}$	$1\frac{5}{8}$	$8\frac{3}{4}$	$8\frac{1}{2}$	$2\frac{1}{8}$	$\frac{7}{8}$	$5\frac{1}{8}$	$8\frac{7}{8}$	$6\frac{7}{16}$	$5\frac{1}{4}$	$5\frac{1}{16}$	$8\frac{7}{8}$	$9\frac{1}{8}$
$4\frac{15}{16}$	5	85	$7\frac{1}{4}$	$5\frac{1}{8}$	$1\frac{3}{4}$	$10\frac{1}{8}$	$9\frac{11}{16}$	$2\frac{9}{32}$	$\frac{7}{8}$	$5\frac{13}{16}$	$10\frac{3}{16}$	$7\frac{1}{16}$	6	$6\frac{3}{8}$	$10\frac{1}{4}$	$10\frac{1}{2}$

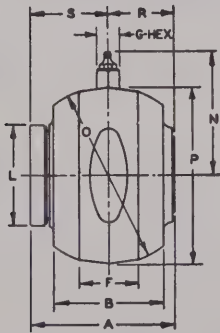
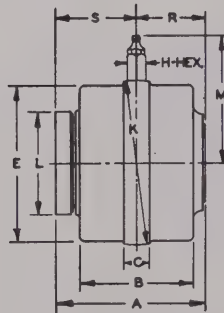
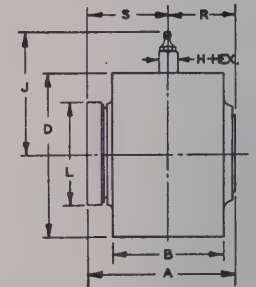
*+.000"—.002".

In Ordering Unit Mounts be sure to specify type of unit, i.e., D, S-1, or B-1 and also specify "Double Interlock" Type.

DODGE-TIMKEN TYPE C UNIT MOUNTS**D Unit (Non-Expansion)****S-1 Unit (Expansion)****B-1 Unit**

Shaft Size	Other Sizes Available	Wt.	A	B	C	D *	E	F	G	H	J	K	L	M	N	O	P
1 ⁷ / ₁₆	1 ³ / ₁₆ , 1 ¹ / ₄ , 1 ⁵ / ₁₆	8.5	4 ¹ / ₂	2 ¹¹ / ₁₆	3 ³ / ₄	3 ⁷ / ₈	3 ¹³ / ₁₆	1 ³ / ₄	7 ¹ / ₁₆	5 ⁵ / ₈	3 ¹ / ₈	4 ¹ / ₁₆	3 ¹ / ₈	3 ³ / ₁₆	2 ¹ / ₂	4 ⁷ / ₁₆	3 ¹⁵ / ₁₆
1 ¹¹ / ₁₆	1 ¹ / ₂ , 1 ³ / ₄	11	4 ⁷ / ₈	3 ¹ / ₈	3 ³ / ₄	4 ¹ / ₄	4 ¹ / ₈	1 ³ / ₄	7 ¹ / ₁₆	5 ⁵ / ₈	3 ³ / ₁₆	4 ⁷ / ₁₆	3 ¹ / ₂	3 ³ / ₈	2 ³ / ₄	5	4 ¹ / ₂
1 ¹⁵ / ₁₆	2, 2 ¹ / ₄	14	5 ¹ / ₄	3 ¹ / ₄	7 ¹ / ₈	4 ³ / ₄	4 ¹ / ₂	1 ³ / ₄	7 ¹ / ₁₆	5 ⁵ / ₈	3 ³ / ₁₆	4 ¹³ / ₁₆	3 ⁷ / ₈	3 ⁹ / ₁₆	2 ⁷ / ₈	5 ⁵ / ₁₆	4 ³ / ₄
2 ³ / ₁₆	2 ³ / ₈	19	5 ³ / ₄	3 ³ / ₄	7 ¹ / ₈	5 ¹ / ₄	5	2	7 ¹ / ₁₆	5 ⁵ / ₈	3 ¹³ / ₁₆	5 ³ / ₈	4 ³ / ₈	3 ¹³ / ₁₆	3 ³ / ₁₆	6	5 ³ / ₈
2 ⁷ / ₁₆		22	6	4	1	5 ³ / ₄	5 ⁵ / ₁₆	2 ¹ / ₂	5 ⁵ / ₈	5 ⁵ / ₈	4 ¹ / ₁₆	5 ¹¹ / ₁₆	4 ⁵ / ₈	4	4 ³ / ₃₂	6 ³ / ₈	5 ¹¹ / ₁₆
2 ¹⁵ / ₁₆	2 ¹ / ₂ , 2 ¹¹ / ₁₆	33	6 ¹ / ₂	4 ⁷ / ₁₆	1	6 ¹ / ₂	6 ³ / ₁₆	2 ⁵ / ₈	5 ⁵ / ₈	3 ³ / ₄	4 ⁵ / ₈	6 ⁹ / ₁₆	5 ⁷ / ₁₆	4 ¹³ / ₁₆	4 ¹ / ₂	7 ⁵ / ₁₆	6 ¹ / ₂
3 ⁷ / ₁₆	3, 3 ³ / ₁₆	53	7	5	1 ¹ / ₄	7 ³ / ₄	7 ¹ / ₂	3 ¹ / ₂	5 ⁵ / ₈	3 ³ / ₄	5 ¹ / ₄	8	5 ¹⁵ / ₁₆	5 ¹ / ₂	5 ⁹ / ₁₆	8 ⁵ / ₈	8 ¹ / ₈
3 ¹⁵ / ₁₆	3 ¹ / ₂ , 3 ³ / ₄ , 4	115	9 ¹ / ₂	6 ¹ / ₄	1 ¹ / ₂	9 ¹ / ₄	8 ¹³ / ₁₆	4 ¹ / ₄	5 ⁵ / ₈	3 ³ / ₄	6	9 ¹ / ₂	7 ⁷ / ₁₆	6 ¹ / ₄	6 ³ / ₈	10 ¹ / ₄	9 ³ / ₄
4 ⁷ / ₁₆	4 ¹ / ₂	142	10	6 ⁵ / ₈	1 ³ / ₄	10 ¹ / ₂	9 ¹⁵ / ₁₆	4 ³ / ₄	3 ³ / ₄	3 ³ / ₄	6 ⁵ / ₈	10 ⁵ / ₈	8 ⁷ / ₁₆	6 ¹³ / ₁₆	6 ¹¹ / ₁₆	11 ¹ / ₈	10 ³ / ₈
4 ¹⁵ / ₁₆	5	195	11 ¹ / ₄	7 ³ / ₈	2	11 ³ / ₄	10 ¹⁵ / ₁₆	5 ¹ / ₁₆	3 ³ / ₄	3 ³ / ₄	7 ¹ / ₄	11 ¹ / ₂	9 ³ / ₈	7 ¹ / ₄	7 ⁷ / ₁₆	12 ¹ / ₂	11 ⁷ / ₈

In ordering units be sure to specify type of unit, i.e., D, S-1, or B-1 Unit, and also specify Type C.
 *.000"—.002".

DODGE-TIMKEN SPECIAL DUTY UNIT MOUNTS**D Unit (Non Expansion)****S-1 Unit (Expansion)****B-1 Unit**

Shaft Size	Other Sizes Available	Wt.	A	B	C	D *	E	F	G	H	J	K	L	M	N	O	P	R	S
1 ⁷ / ₁₆	1 ³ / ₈ , 1 ¹ / ₂	7	4	2 ¹¹ / ₁₆	3 ³ / ₄	3 ⁷ / ₈	3 ³ / ₄	1 ¹ / ₂	7 ¹ / ₁₆	5 ⁵ / ₈	3 ¹ / ₁₆	4 ¹ / ₁₆	2 ⁷ / ₁₆	3 ³ / ₁₆	2 ¹ / ₂	4 ⁷ / ₁₆	3 ¹⁵ / ₁₆	1 ¹³ / ₁₆	2 ³ / ₁₆
1 ¹¹ / ₁₆	1 ⁵ / ₈ , 1 ³ / ₄	10	4 ¹ / ₈	3 ¹ / ₈	3 ³ / ₄	4 ¹ / ₄	4 ¹ / ₈	1 ³ / ₄	7 ¹ / ₁₆	5 ⁵ / ₈	3 ³ / ₄	4 ⁷ / ₁₆	2 ¹³ / ₁₆	3 ³ / ₈	2 ³ / ₄	5	4 ¹ / ₂	1 ⁷ / ₈	2 ¹ / ₄
1 ¹⁵ / ₁₆	1 ⁷ / ₈ , 2	12	4 ¹ / ₄	3 ¹ / ₄	7 ¹ / ₈	4 ³ / ₄	4 ¹ / ₂	1 ³ / ₄	7 ¹ / ₁₆	5 ⁵ / ₈	3 ¹ / ₂	4 ¹³ / ₁₆	3 ¹ / ₁₆	3 ⁹ / ₁₆	2 ⁷ / ₈	5 ⁵ / ₁₆	4 ³ / ₄	1 ¹⁵ / ₁₆	2 ⁵ / ₁₆
2 ³ / ₁₆	2 ⁵ / ₈ , 2 ¹ / ₄	16	4 ⁹ / ₁₆	3 ³ / ₄	7 ¹ / ₈	5 ¹ / ₄	5 ¹ / ₁₆	2	7 ¹ / ₁₆	5 ⁵ / ₈	3 ³ / ₄	5 ³ / ₈	3 ⁷ / ₁₆	3 ¹³ / ₁₆	3 ³ / ₁₆	6	5 ³ / ₈	2 ¹ / ₁₆	2 ¹ / ₂
2 ⁷ / ₁₆	2 ³ / ₈ , 2 ¹ / ₂	21	5 ¹ / ₁₆	4	1	5 ³ / ₄	5 ⁵ / ₁₆	2 ¹ / ₂	5 ⁵ / ₈	5 ⁵ / ₈	4	5 ¹¹ / ₁₆	3 ¹³ / ₁₆	4	4 ³ / ₃₂	6 ³ / ₈	5 ¹¹ / ₁₆	2 ⁹ / ₁₆	2 ³ / ₄
2 ¹⁵ / ₁₆	2 ⁵ / ₈ , 2 ¹¹ / ₁₆ , 2 ³ / ₄ , 3	29	5 ³ / ₄	4 ⁷ / ₁₆	1	6 ¹ / ₂	6 ³ / ₁₆	2 ⁵ / ₈	5 ⁵ / ₈	3 ³ / ₄	4 ³ / ₄	6 ⁹ / ₁₆	4 ⁷ / ₁₆	4 ¹³ / ₁₆	4 ¹ / ₂	7 ⁵ / ₁₆	6 ¹ / ₂	2 ⁵ / ₈	3 ¹ / ₈
3 ⁷ / ₁₆	3 ³ / ₁₆ , 3 ³ / ₈ , 3 ¹ / ₂	47	6 ³ / ₈	5	1 ¹ / ₄	7 ³ / ₄	7 ⁵ / ₈	3 ¹ / ₂	5 ⁵ / ₈	3 ³ / ₄	5 ⁵ / ₈	8	5 ¹ / ₁₆	5 ¹ / ₂	5 ⁹ / ₁₆	8 ⁵ / ₈	8 ¹ / ₈	2 ¹⁵ / ₁₆	3 ⁷ / ₁₆
3 ¹⁵ / ₁₆	3 ¹ / ₁₆ , 3 ³ / ₄ , 3 ⁷ / ₈ , 4	94	8 ¹ / ₂	6 ¹ / ₄	1 ¹ / ₂	9 ¹ / ₄	9	4 ¹ / ₄	5 ⁵ / ₈	3 ³ / ₄	6 ¹ / ₈	9 ¹ / ₂	6 ¹ / ₄	6 ¹ / ₄	6 ³ / ₈	10 ¹ / ₄	9 ³ / ₄	4 ¹ / ₄	4 ¹ / ₄
4 ⁷ / ₁₆	4 ¹ / ₂	128	9 ¹ / ₂	6 ⁵ / ₈	1 ³ / ₄	10 ¹ / ₂	10 ¹ / ₁₆	4 ³ / ₄	3 ³ / ₄	3 ³ / ₄	6 ³ / ₄	10 ⁵ / ₈	7 ¹ / ₄	6 ¹³ / ₁₆	6 ¹¹ / ₁₆	11 ¹ / ₈	10 ³ / ₈	4 ³ / ₄	4 ³ / ₄
4 ¹⁵ / ₁₆	5	182	10 ¹ / ₂	7 ³ / ₈	2	11 ³ / ₄	10 ⁷ / ₈	5 ¹ / ₁₆	3 ³ / ₄	3 ³ / ₄	7 ³ / ₈	11 ¹ / ₂	8	7 ¹ / ₄	7 ⁷ / ₁₆	12 ¹ / ₂	11 ⁷ / ₈	5 ³ / ₄	5 ³ / ₄
6	5 ⁷ / ₁₆ , 5 ¹⁵ / ₁₆	300	12	8 ¹ / ₂	2 ¹ / ₄	13 ¹ / ₂	13	5 ¹ / ₄	3 ³ / ₄	3 ³ / ₄	8 ¹ / ₄	14	9 ¹ / ₂	8 ¹ / ₂	8 ⁹ / ₁₆	14 ³ / ₄	14 ¹ / ₈	6	6
7	6 ¹ / ₂ , 6 ¹⁵ / ₁₆	560	13 ¹ / ₂	9	.....	14 ³ / ₄	.....	6	1	1	8 ⁷ / ₈	.....	11	.....	10 ⁷ / ₈	18	17	6 ³ / ₄	6 ³ / ₄
8	7 ¹⁵ / ₁₆	800	14 ¹ / ₂	10	.....	16 ¹ / ₄	.....	6 ¹ / ₂	1	1	9 ⁵ / ₈	.....	12 ¹ / ₂	.....	12 ¹ / ₄	20 ¹ / ₈	19 ¹ / ₈	7 ¹ / ₄	7 ¹ / ₄
10	8 ¹ / ₁₆ to 10	1380	17	11	.....	19 ¹ / ₂	.....	5	1	1	11 ¹ / ₄	.....	14 ⁵ / ₈	.....	14 ¹ / ₂	24	23 ¹ / ₂	8 ¹ / ₂	8 ¹ / ₂
12	10 ¹ / ₁₆ to 12	1890	18 ¹ / ₂	12 ³ / ₄	.....	23	.....	5 ³ / ₄	1	1	13	.....	17	.....	17 ⁵ / ₈	28 ¹ / ₂	28	9 ³ / ₄	9 ³ / ₄

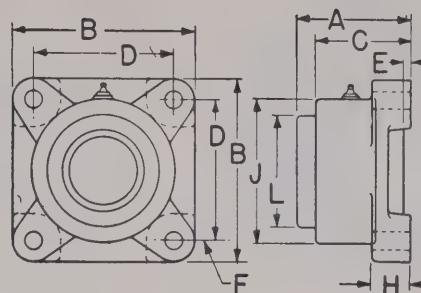
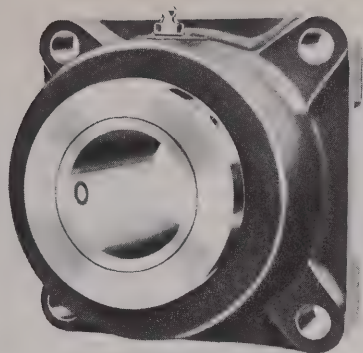
In ordering Unit Mounts be sure to specify type of unit, i.e., D, S-1, or B-1 and also specify Special Duty Type.

Note—S-1 Unit is not made in sizes larger than 6" bore.

When ordering 5¹/₁₆" or larger bearings specify R.P.M.

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DODGE-TIMKEN TYPE "E" FLANGE BEARINGS

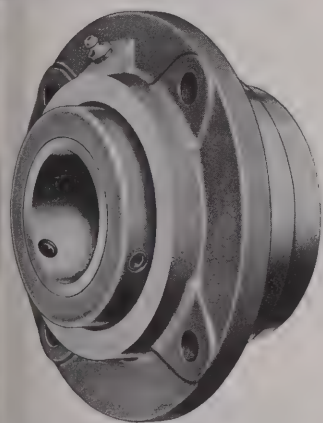


Bearings are self-contained, factory adjusted, lubricated, completely sealed and ready for installation. These units have enough self-alignment inherent in the design and arrangement of the Timken rollers to compensate for any normal misalignment.

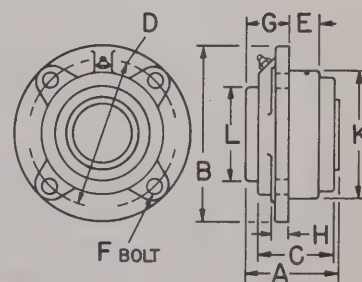
Shaft Size	Other Sizes Available	Weight	A	B	C	D	E	F Bolt	H	J	L
$1\frac{3}{16}$	$1\frac{1}{4}$	4.5	$2\frac{13}{16}$	$3\frac{3}{4}$	$2\frac{11}{16}$	$2\frac{7}{8}$	$\frac{1}{16}$	$\frac{3}{8}$	1	$2\frac{15}{16}$	$2\frac{1}{4}$
$1\frac{7}{16}$	$1\frac{3}{8}$	6.7	$3\frac{1}{16}$	$4\frac{5}{8}$	$2\frac{19}{32}$	$3\frac{1}{2}$	$\frac{1}{16}$	$\frac{1}{2}$	$1\frac{1}{16}$	$3\frac{1}{2}$	$2\frac{3}{4}$
$1\frac{11}{16}$	$1\frac{1}{2}, 1\frac{5}{8}$	10	$3\frac{1}{2}$	$5\frac{3}{8}$	$2\frac{31}{32}$	$4\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{2}$	$1\frac{3}{16}$	$4\frac{3}{16}$	$3\frac{3}{16}$
$1\frac{15}{16}$	$1\frac{3}{4}, 1\frac{7}{8}, 2$	12	$3\frac{5}{8}$	$5\frac{5}{8}$	$3\frac{3}{32}$	$4\frac{3}{8}$	$\frac{1}{8}$	$\frac{1}{2}$	$1\frac{3}{16}$	$4\frac{7}{16}$	$3\frac{7}{16}$
$2\frac{3}{16}$	.....	16	$3\frac{7}{8}$	$6\frac{1}{4}$	$3\frac{3}{32}$	$4\frac{7}{8}$	$\frac{1}{8}$	$\frac{5}{8}$	$1\frac{3}{8}$	$4\frac{7}{8}$	$3\frac{3}{4}$
$2\frac{7}{16}$	$2\frac{1}{4}, 2\frac{1}{2}$	21	$4\frac{3}{16}$	$6\frac{7}{8}$	$3\frac{9}{16}$	$5\frac{3}{8}$	$\frac{3}{16}$	$\frac{5}{8}$	$1\frac{1}{2}$	$5\frac{5}{16}$	$4\frac{1}{16}$
$2\frac{15}{16}$	$2\frac{11}{16}, 2\frac{3}{4}, 3$	28	$4\frac{11}{16}$	$7\frac{3}{4}$	$3\frac{15}{16}$	6	$\frac{3}{16}$	$\frac{3}{4}$	$1\frac{5}{8}$	6	$4\frac{23}{32}$
$3\frac{7}{16}$	$3\frac{3}{16}, 3\frac{1}{2}$	46	$5\frac{1}{4}$	$9\frac{1}{4}$	5	7	$\frac{1}{4}$	$\frac{3}{4}$	$1\frac{7}{8}$	$7\frac{1}{4}$	$5\frac{7}{16}$
$3\frac{15}{16}$	4	74	$6\frac{1}{2}$	$10\frac{1}{4}$	$6\frac{1}{4}$	$7\frac{3}{4}$	$\frac{1}{4}$	$\frac{7}{8}$	$2\frac{1}{8}$	$8\frac{1}{4}$	$5\frac{15}{16}$

Furnished in Non-Expansion type only.

DODGE TYPE E SINGLE COLLAR PILOTED FLANGE BEARINGS with Timken Tapered Roller Bearings



The new Dodge Type E Piloted Flange Bearings offer a simple means of mounting on vertical or horizontal machine frames. A cylindrical machined surface (dimension K) on the unit, serves as a pilot to accurately locate unit in the housing. The inherent self-alignment feature further facilitates ease of mounting.



Shaft Size	Other Std. Sizes	Wt.	A	B	C	D	E	F Bolt	G	H	K *	L
$1\frac{3}{16}$	$1\frac{1}{4}$	3.5	$2\frac{1}{4}$	5	$2\frac{7}{32}$	$4\frac{1}{8}$	$\frac{3}{4}$	$\frac{3}{8}$	$1\frac{5}{16}$	$\frac{7}{16}$	$3\frac{3}{8}$	$2\frac{1}{4}$
$1\frac{7}{16}$	$1\frac{3}{8}$	4.9	3	$5\frac{1}{4}$	$2\frac{15}{32}$	$4\frac{3}{8}$	$\frac{7}{8}$	$\frac{3}{8}$	$1\frac{1}{2}$	$1\frac{1}{2}$	$3\frac{5}{8}$	$2\frac{3}{4}$
$1\frac{11}{16}$	$1\frac{1}{2}, 1\frac{5}{8}$	7.8	$3\frac{3}{8}$	$6\frac{1}{8}$	$2\frac{25}{32}$	$5\frac{1}{8}$	$1\frac{1}{16}$	$\frac{7}{16}$	$1\frac{9}{16}$	$\frac{1}{2}$	$4\frac{1}{4}$	$3\frac{3}{16}$
$1\frac{15}{16}$	$1\frac{3}{4}, 1\frac{7}{8}, 2$	9.4	$3\frac{1}{2}$	$6\frac{3}{8}$	$2\frac{29}{32}$	$5\frac{3}{8}$	$1\frac{3}{16}$	$\frac{7}{16}$	$1\frac{9}{16}$	$\frac{9}{16}$	$4\frac{1}{2}$	$3\frac{7}{16}$
$2\frac{3}{16}$	.....	12	$3\frac{3}{4}$	$7\frac{1}{8}$	$3\frac{3}{32}$	6	$1\frac{3}{16}$	$\frac{1}{2}$	$1\frac{11}{16}$	$\frac{9}{16}$	5	$3\frac{3}{4}$
$2\frac{7}{16}$	$2\frac{1}{4}, 2\frac{1}{2}$	16	4	$7\frac{5}{8}$	$3\frac{9}{16}$	$6\frac{1}{2}$	$1\frac{5}{16}$	$\frac{1}{2}$	$1\frac{13}{16}$	$\frac{5}{8}$	$5\frac{1}{2}$	$4\frac{1}{16}$
$2\frac{15}{16}$	$2\frac{11}{16}, 2\frac{3}{4}, 3$	24	$4\frac{1}{2}$	$8\frac{3}{4}$	$3\frac{11}{16}$	$7\frac{1}{2}$	$1\frac{1}{2}$	$\frac{5}{8}$	2	$\frac{3}{4}$	$6\frac{3}{8}$	$4\frac{23}{32}$

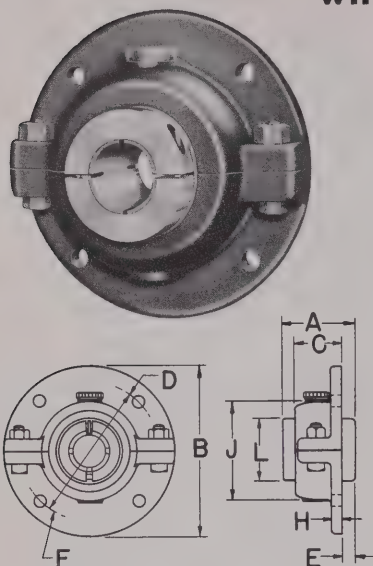
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Furnished in Non-Expansion type only.

NEED HELP ON BEARINGS—CALL US

DODGE SELF-ALIGNING FLANGE UNITS**with Timken Tapered Roller Bearings****Type C Flange Bearings**

The Dodge Type C Unit design consists of two standard Timken assemblies mounted on a sleeve. The ends of the sleeve are slotted and shaft mounting is accomplished by clamping these flexible slotted ends tightly to the shaft by means of split clamp collars. These collars being threaded to the sleeve also provide means of adjustment.

**Type C**

Shaft Size	Other Std. Sizes	Wt.	A	B	C	D	E	F Bolt	H	J	L
$1\frac{7}{16}$	$1\frac{3}{16}, 1\frac{1}{4}, 1\frac{5}{16}$	23	$4\frac{1}{2}$	$8\frac{1}{4}$	3	7	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{5}{8}$	$5\frac{3}{8}$	$3\frac{1}{8}$
$1\frac{11}{16}$	$1\frac{1}{2}, 1\frac{3}{4}$	31	$4\frac{7}{8}$	9	$3\frac{3}{8}$	$7\frac{5}{8}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{11}{16}$	6	$3\frac{1}{2}$
$1\frac{15}{16}$	.....	39	$5\frac{1}{4}$	10	$3\frac{1}{2}$	$8\frac{3}{8}$	$\frac{7}{8}$	$\frac{5}{8}$	$\frac{3}{4}$	$6\frac{1}{2}$	$3\frac{7}{8}$
$2\frac{3}{16}$	2, $2\frac{1}{4}$	49	$5\frac{3}{4}$	$10\frac{3}{4}$	4	$9\frac{1}{8}$	$\frac{7}{8}$	$\frac{5}{8}$	$\frac{13}{16}$	$7\frac{1}{4}$	$4\frac{3}{8}$
$2\frac{7}{16}$	$2\frac{3}{8}$	64	6	12	$4\frac{1}{4}$	$10\frac{1}{4}$	$\frac{7}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	$7\frac{7}{8}$	$4\frac{5}{8}$
$2\frac{15}{16}$	$2\frac{11}{16}$	98	$6\frac{1}{2}$	13	$4\frac{5}{8}$	$11\frac{1}{4}$	$\frac{15}{16}$	$\frac{3}{4}$	1	9	$5\frac{1}{16}$
$3\frac{7}{16}$	3, $3\frac{3}{16}$	140	7	$14\frac{1}{2}$	$5\frac{3}{8}$	$12\frac{1}{2}$	$\frac{13}{16}$	$\frac{7}{8}$	$1\frac{1}{8}$	$10\frac{1}{2}$	$5\frac{15}{16}$
$3\frac{15}{16}$	$3\frac{1}{2}, 3\frac{3}{4}, 4$	230	$9\frac{1}{2}$	18	$6\frac{3}{4}$	$15\frac{3}{4}$	$1\frac{3}{8}$	1	$1\frac{1}{4}$	$13\frac{1}{8}$	$7\frac{1}{16}$
$4\frac{7}{16}$	$4\frac{1}{2}$	325	10	$19\frac{1}{2}$	$7\frac{1}{4}$	17	$1\frac{3}{8}$	$1\frac{1}{8}$	$1\frac{3}{8}$	$13\frac{1}{2}$	$8\frac{7}{16}$
$4\frac{15}{16}$	5	430	$11\frac{1}{4}$	$21\frac{1}{2}$	$8\frac{1}{4}$	19	$1\frac{3}{8}$	$1\frac{1}{8}$	$1\frac{3}{4}$	16	$9\frac{3}{8}$

Non-Expansion bearings will be regularly furnished unless otherwise specified.

Double Interlock Flange Bearings

The Dodge Double Interlock Series Unit has a special duplex Timken Bearing which has an extended inner race with a slip fit for direct mounting to the shaft.

Shaft Size	Other Std. Sizes	Wt.	A	B	C	D	E	F Bolt	H	J	L
$1\frac{7}{16}$	$1\frac{3}{8}$	14	3	$7\frac{1}{2}$	$2\frac{1}{16}$	$6\frac{1}{4}$	$\frac{15}{32}$	$\frac{1}{2}$	$\frac{1}{2}$	$4\frac{3}{4}$	$2\frac{3}{4}$
$1\frac{11}{16}$	$1\frac{1}{2}, 1\frac{5}{8}$	19	$3\frac{3}{8}$	8	$2\frac{1}{4}$	$6\frac{3}{4}$	$\frac{9}{16}$	$\frac{1}{2}$	$\frac{1}{2}$	$5\frac{1}{4}$	$3\frac{3}{16}$
$1\frac{15}{16}$	$1\frac{3}{4}, 1\frac{7}{8}, 2$	24	$3\frac{1}{2}$	9	$2\frac{3}{8}$	$7\frac{1}{2}$	$\frac{9}{16}$	$\frac{5}{8}$	$\frac{9}{16}$	$5\frac{5}{8}$	$3\frac{7}{16}$
$2\frac{3}{16}$	.....	25	$3\frac{3}{4}$	$9\frac{1}{2}$	$2\frac{1}{2}$	8	$\frac{5}{8}$	$\frac{5}{8}$	$\frac{9}{16}$	$6\frac{1}{8}$	$3\frac{3}{4}$
$2\frac{7}{16}$	$2\frac{1}{4}, 2\frac{1}{2}$	32	4	10	$2\frac{5}{8}$	$8\frac{1}{2}$	$\frac{11}{16}$	$\frac{5}{8}$	$\frac{5}{8}$	$6\frac{1}{2}$	$4\frac{1}{16}$
$2\frac{15}{16}$	$2\frac{11}{16}, 2\frac{3}{4}, 3$	48	$4\frac{1}{2}$	$11\frac{3}{4}$	$2\frac{15}{16}$	$9\frac{3}{4}$	$\frac{25}{32}$	$\frac{3}{4}$	$\frac{11}{16}$	$7\frac{3}{8}$	$4\frac{23}{32}$
$3\frac{7}{16}$	$3\frac{3}{16}, 3\frac{1}{2}$	80	5	$13\frac{3}{4}$	$3\frac{7}{16}$	$11\frac{1}{2}$	$\frac{25}{32}$	$\frac{7}{8}$	$\frac{3}{4}$	9	$5\frac{7}{16}$
$3\frac{15}{16}$	4	132	$6\frac{1}{4}$	$15\frac{1}{2}$	$4\frac{1}{2}$	13	$\frac{7}{8}$	1	$\frac{13}{16}$	$10\frac{1}{4}$	$5\frac{15}{16}$
$4\frac{7}{16}$	$4\frac{1}{2}$	158	$6\frac{3}{4}$	$17\frac{3}{4}$	$4\frac{5}{8}$	15	$1\frac{1}{16}$	1	1	$11\frac{1}{4}$	$6\frac{7}{16}$
$4\frac{15}{16}$	5	195	$7\frac{1}{4}$	19	5	16	$1\frac{1}{8}$	$1\frac{1}{8}$	$1\frac{1}{8}$	$12\frac{3}{4}$	$7\frac{7}{16}$

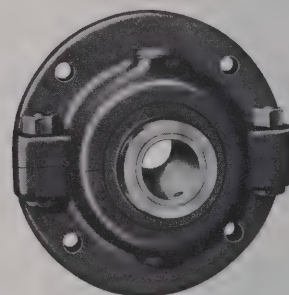
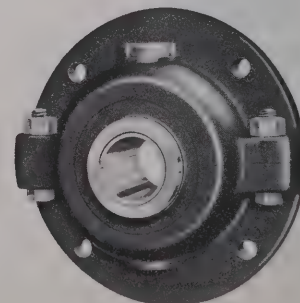
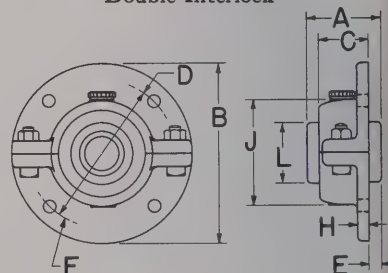
Non-Expansion bearings will be regularly furnished unless otherwise specified.

Special Duty Flange Bearings

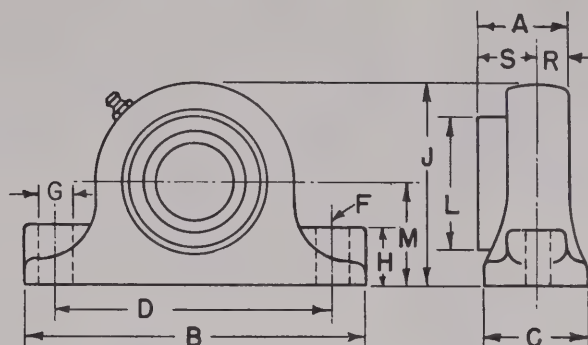
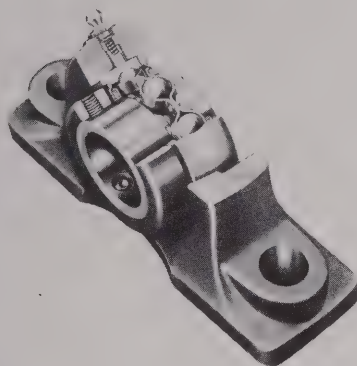
The Dodge Special Duty Series Unit has a special duplex Timken Roller Bearing with a tapered bore. The inner race is carried on a split tapered sleeve which has a straight cylindrical bore.

Shaft Size	Other Std. Sizes	Wt.	A	B	C	D	E	F Bolt	H	J	L
$1\frac{7}{16}$	$1\frac{3}{8}, 1\frac{1}{2}$	21	4	$8\frac{1}{4}$	3	7	$\frac{5}{16}$	$\frac{1}{2}$	$\frac{5}{8}$	$5\frac{3}{8}$	$2\frac{7}{16}$
$1\frac{11}{16}$	$1\frac{5}{8}, 1\frac{3}{4}$	30	$4\frac{1}{8}$	9	$3\frac{3}{8}$	$7\frac{5}{8}$	$\frac{3}{16}$	$\frac{1}{2}$	$\frac{11}{16}$	6	$2\frac{15}{16}$
$1\frac{15}{16}$	$1\frac{7}{8}, 2$	37	$4\frac{1}{4}$	$10\frac{1}{2}$	$3\frac{1}{2}$	$8\frac{3}{8}$	$\frac{3}{16}$	$\frac{5}{8}$	$\frac{3}{4}$	$6\frac{1}{2}$	$3\frac{1}{16}$
$2\frac{3}{16}$	$2\frac{1}{8}, 2\frac{1}{4}$	47	$4\frac{9}{16}$	$10\frac{3}{4}$	4	$9\frac{1}{8}$	$\frac{1}{16}$	$\frac{5}{8}$	$\frac{13}{16}$	$7\frac{1}{4}$	$3\frac{7}{16}$
$2\frac{7}{16}$	$2\frac{3}{8}, 2\frac{1}{2}$	63	$5\frac{1}{16}$	12	$4\frac{1}{4}$	$10\frac{1}{4}$	$\frac{3}{16}$	$\frac{3}{4}$	$\frac{7}{8}$	$7\frac{7}{8}$	$3\frac{13}{16}$
$2\frac{15}{16}$	$2\frac{5}{8}, 2\frac{11}{16}, 2\frac{3}{4}, 3$	85	$5\frac{3}{4}$	13	$4\frac{5}{8}$	$11\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{4}$	1	9	$4\frac{7}{16}$
$3\frac{7}{16}$	$3\frac{3}{16}, 3\frac{3}{8}, 3\frac{1}{2}$	138	$6\frac{3}{8}$	$14\frac{1}{2}$	$5\frac{3}{8}$	$12\frac{1}{2}$	$\frac{1}{4}$	$\frac{7}{8}$	$1\frac{1}{8}$	$10\frac{1}{16}$	$5\frac{1}{16}$
$3\frac{15}{16}$	$3\frac{1}{16}, 3\frac{3}{4}, 3\frac{7}{8}, 4$	230	$8\frac{1}{2}$	18	$6\frac{3}{4}$	$15\frac{3}{4}$	$\frac{7}{8}$	1	$1\frac{1}{4}$	$13\frac{1}{8}$	$6\frac{1}{4}$
$4\frac{7}{16}$	$4\frac{1}{2}$	325	$9\frac{1}{2}$	$19\frac{1}{2}$	$7\frac{1}{4}$	17	$1\frac{1}{8}$	$1\frac{1}{8}$	$1\frac{3}{8}$	$13\frac{1}{2}$	$7\frac{1}{4}$
$4\frac{15}{16}$	5	430	$10\frac{1}{2}$	$21\frac{1}{2}$	$8\frac{1}{4}$	19	1	$1\frac{1}{8}$	$1\frac{3}{4}$	16	8

Non-Expansion bearings will be regularly furnished unless otherwise specified.

**Double Interlock****Special Duty**

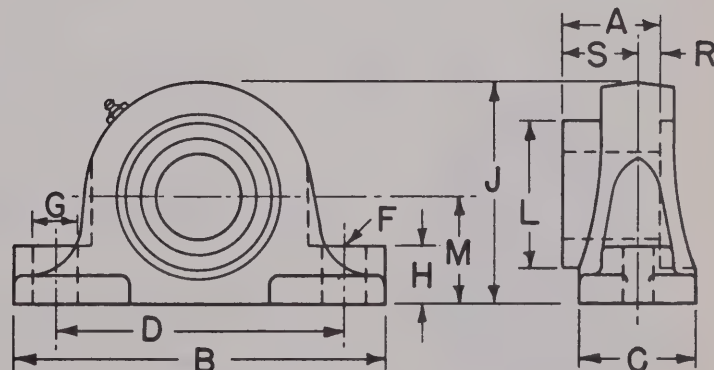
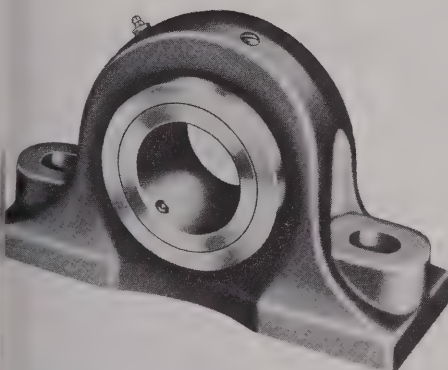
DODGE SC BALL BEARING PILLOW BLOCKS



Shaft Size	Other Sizes Available	Wt.	A	B	C	D	F Bolt	G	H	J	L	M	R	S
$\frac{3}{4}$	$\frac{1}{2}, \frac{5}{8}$	1.5	$1\frac{3}{16}$	$4\frac{3}{4}$	$1\frac{3}{8}$	$3\frac{3}{4}$	$\frac{3}{8}$	$\frac{9}{16}$	$\frac{3}{4}$	$2\frac{7}{8}$	$1\frac{5}{32}$	$1\frac{5}{16}$	$\frac{7}{16}$	$\frac{3}{4}$
$\frac{15}{16}$	$\frac{7}{8}, 1$	2.0	$1\frac{7}{32}$	$5\frac{1}{8}$	$1\frac{1}{2}$	$4\frac{1}{8}$	$\frac{3}{8}$	$\frac{9}{16}$	$\frac{13}{16}$	$3\frac{3}{16}$	$1\frac{23}{64}$	$1\frac{7}{16}$	$\frac{29}{64}$	$\frac{49}{64}$
$1\frac{1}{16}$	$1\frac{1}{16}, 1\frac{1}{8}$	2.7	$1\frac{15}{32}$	6	$1\frac{3}{4}$	$4\frac{3}{4}$	$\frac{1}{2}$	$\frac{11}{16}$	$\frac{15}{16}$	$3\frac{1}{4}$	$1\frac{31}{32}$	$1\frac{9}{8}$	$\frac{31}{64}$	$\frac{63}{64}$
$1\frac{1}{8}$	$1\frac{1}{4}, 1\frac{1}{2}, 1\frac{3}{8}$	3.7	$1\frac{143}{64}$	$6\frac{1}{8}$	$1\frac{7}{8}$	5	$\frac{1}{2}$	$\frac{11}{16}$	$1\frac{1}{16}$	$3\frac{11}{16}$	$2\frac{1}{4}$	$1\frac{7}{8}$	$\frac{9}{16}$	$1\frac{1}{64}$
$1\frac{1}{2}$	$1\frac{5}{8}$	5.5	$1\frac{25}{32}$	$6\frac{5}{8}$	2	$5\frac{3}{8}$	$\frac{1}{2}$	$\frac{11}{16}$	$1\frac{1}{4}$	$4\frac{1}{8}$	$2\frac{3}{4}$	$2\frac{1}{8}$	$\frac{37}{64}$	$1\frac{13}{64}$
$1\frac{11}{16}$	$1\frac{3}{4}$	6.0	$1\frac{57}{64}$	7	$2\frac{1}{8}$	$5\frac{3}{4}$	$\frac{1}{2}$	$\frac{11}{16}$	$1\frac{1}{4}$	$4\frac{5}{16}$	$2\frac{15}{16}$	$2\frac{1}{8}$	$\frac{19}{32}$	$1\frac{19}{64}$
$1\frac{15}{16}$	2	7.5	$1\frac{31}{32}$	$7\frac{3}{4}$	$2\frac{1}{4}$	$6\frac{1}{4}$	$\frac{5}{8}$	$\frac{13}{16}$	$1\frac{3}{8}$	$4\frac{9}{16}$	$3\frac{1}{16}$	$2\frac{1}{4}$	$\frac{41}{64}$	$1\frac{21}{64}$
$2\frac{1}{16}$	$2\frac{1}{4}$	9.5	$2\frac{15}{64}$	$8\frac{1}{4}$	$2\frac{3}{8}$	$6\frac{3}{4}$	$\frac{5}{8}$	$\frac{13}{16}$	$1\frac{1}{2}$	$5\frac{1}{16}$	$3\frac{7}{16}$	$2\frac{1}{2}$	$\frac{25}{32}$	$1\frac{29}{64}$
$2\frac{1}{2}$	.....	12.0	$2\frac{32}{32}$	9	$2\frac{1}{2}$	$7\frac{1}{4}$	$\frac{5}{8}$	$\frac{7}{8}$	$1\frac{5}{8}$	$5\frac{1}{2}$	$3\frac{7}{8}$	$2\frac{3}{4}$	$\frac{47}{64}$	$1\frac{35}{64}$

Furnished in Non-Expansion type only.

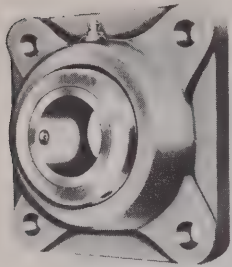
DODGE SCM BALL BEARING PILLOW BLOCKS



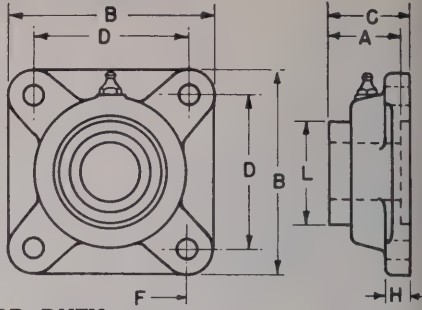
Shaft Size	Other Sizes Available	Wt.	A	B	C	D	F Bolt	G	H	J	L	M	R	S
$1\frac{1}{16}$	...	6.3	$1\frac{3}{4}$	$7\frac{1}{2}$	$2\frac{1}{4}$	$5\frac{11}{16}$	$\frac{1}{2}$	1	$1\frac{1}{4}$	$4\frac{3}{16}$	$2\frac{3}{4}$	$2\frac{1}{8}$	$\frac{37}{64}$	$1\frac{11}{64}$
$1\frac{1}{2}$	...	7.6	$1\frac{13}{16}$	$8\frac{1}{4}$	$2\frac{5}{8}$	$6\frac{1}{8}$	$\frac{5}{8}$	$1\frac{1}{8}$	$1\frac{1}{16}$	$4\frac{9}{16}$	$2\frac{15}{16}$	$2\frac{5}{16}$	$\frac{19}{32}$	$1\frac{7}{32}$
$1\frac{11}{16}$	$1\frac{3}{4}$	9.2	$1\frac{29}{32}$	$8\frac{1}{4}$	$2\frac{5}{8}$	$6\frac{1}{8}$	$\frac{5}{8}$	$1\frac{1}{8}$	$1\frac{3}{8}$	$4\frac{5}{8}$	$3\frac{1}{16}$	$2\frac{5}{16}$	$\frac{41}{64}$	$1\frac{17}{64}$
$1\frac{15}{16}$	2	12.2	$2\frac{3}{16}$	$8\frac{7}{8}$	$2\frac{7}{8}$	$6\frac{3}{4}$	$\frac{5}{8}$	$1\frac{1}{8}$	$1\frac{1}{2}$	$5\frac{1}{16}$	$3\frac{7}{16}$	$2\frac{1}{2}$	$\frac{25}{32}$	$1\frac{13}{32}$
$2\frac{1}{16}$	$2\frac{1}{4}$	15	$2\frac{29}{32}$	$9\frac{5}{8}$	$3\frac{1}{8}$	$7\frac{1}{4}$	$\frac{3}{4}$	$1\frac{1}{4}$	$1\frac{5}{8}$	$5\frac{5}{8}$	$3\frac{7}{8}$	$2\frac{3}{4}$	$\frac{23}{32}$	$1\frac{9}{16}$
$2\frac{1}{2}$	$2\frac{1}{2}$	19	$2\frac{49}{64}$	$10\frac{3}{8}$	$3\frac{1}{4}$	8	$\frac{3}{4}$	$1\frac{1}{4}$	$1\frac{3}{4}$	$6\frac{3}{16}$	$4\frac{3}{8}$	3	$\frac{1}{16}$	$1\frac{3}{4}$
$2\frac{15}{16}$	3	24	$2\frac{63}{64}$	$11\frac{5}{8}$	$3\frac{1}{2}$	9	$\frac{7}{8}$	$1\frac{3}{8}$	$2\frac{1}{8}$	$7\frac{1}{8}$	5	$3\frac{1}{2}$	$\frac{13}{64}$	$1\frac{15}{16}$
$3\frac{1}{16}$	$3\frac{1}{2}$	32	$3\frac{13}{32}$	$13\frac{7}{8}$	$4\frac{3}{8}$	$11\frac{1}{8}$	$\frac{7}{8}$	$1\frac{3}{8}$	$2\frac{3}{8}$	$8\frac{1}{4}$	$5\frac{5}{8}$	4	$\frac{113}{64}$	$2\frac{13}{64}$

Furnished in Non-Expansion type only.

DODGE BALL BEARING FLANGE UNITS



SC and SCM Flange Units are suitable for mounting against vertical or horizontal frames or supports. Housing combines pleasing appearance and rugged construction. Back face of housing is machined and filling slots are also at back which provides added protection against external dust or dirt. If thrust load is considerable mount a shaft collar next to the end of the bearing.



SC BALL BEARING FLANGE MOUNTS—STANDARD DUTY

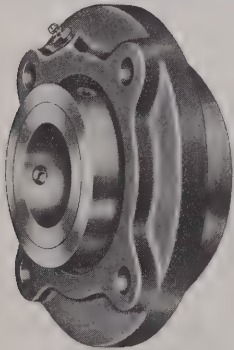
Shaft Size	Other Sizes Available	Weight	A	B	C	D	F Bolt	H	L
$\frac{3}{4}$	$\frac{1}{2}, \frac{5}{8}$	1.6	$1\frac{3}{16}$	$3\frac{3}{8}$	$1\frac{11}{32}$	$2\frac{1}{2}$	$\frac{3}{8}$	$\frac{7}{16}$	$1\frac{5}{32}$
$\frac{15}{16}$	$\frac{7}{8}, 1$	2.2	$1\frac{7}{32}$	$3\frac{3}{4}$	$1\frac{11}{32}$	$2\frac{3}{4}$	$\frac{7}{16}$	$\frac{1}{2}$	$1\frac{23}{64}$
$1\frac{1}{16}$	$1\frac{1}{8}, 1\frac{1}{4}$	2.7	$1\frac{15}{32}$	$4\frac{1}{4}$	$1\frac{39}{64}$	$3\frac{1}{4}$	$\frac{7}{16}$	$\frac{1}{2}$	$1\frac{31}{32}$
$1\frac{1}{8}$	$1\frac{1}{4}, 1\frac{3}{8}$	3.7	$1\frac{43}{64}$	$4\frac{3}{4}$	$1\frac{59}{64}$	$3\frac{3}{8}$	$\frac{1}{2}$	$\frac{9}{16}$	$2\frac{1}{4}$
$1\frac{1}{2}$	$1\frac{5}{8}$	5.2	$1\frac{29}{32}$	$5\frac{1}{8}$	$1\frac{63}{64}$	4	$\frac{1}{2}$	$\frac{9}{16}$	$2\frac{3}{4}$
$1\frac{11}{16}$	$1\frac{3}{4}$	6.2	$1\frac{57}{64}$	$5\frac{3}{8}$	$2\frac{7}{64}$	$4\frac{1}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$2\frac{15}{16}$
$1\frac{15}{16}$	2	7.2	$1\frac{31}{32}$	$5\frac{5}{8}$	$2\frac{11}{64}$	$4\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$3\frac{1}{16}$
$2\frac{1}{16}$	$2\frac{1}{4}$	10	$2\frac{15}{64}$	$6\frac{1}{2}$	$2\frac{23}{64}$	$5\frac{1}{8}$	$\frac{5}{8}$	$\frac{11}{16}$	$3\frac{1}{8}$
$2\frac{1}{8}$	.....	12	$2\frac{29}{32}$	7	$2\frac{1}{2}$	$5\frac{3}{8}$	$\frac{5}{8}$	$\frac{11}{16}$	$3\frac{3}{8}$

SCM BALL BEARING FLANGE MOUNTS—MEDIUM DUTY

$\frac{17}{16}$	.....	5.3	$1\frac{3}{4}$	$5\frac{1}{8}$	$1\frac{61}{64}$	4	$\frac{1}{2}$	$\frac{9}{16}$	$2\frac{3}{4}$
$1\frac{1}{2}$	.....	6.4	$1\frac{13}{16}$	$5\frac{3}{8}$	$2\frac{1}{32}$	$4\frac{1}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$2\frac{15}{16}$
$1\frac{11}{16}$	$1\frac{3}{4}$	7.6	$1\frac{29}{32}$	$5\frac{5}{8}$	$2\frac{7}{64}$	$4\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$3\frac{1}{16}$
$1\frac{15}{16}$	2	11	$2\frac{3}{16}$	$6\frac{1}{2}$	$2\frac{5}{16}$	$5\frac{1}{8}$	$\frac{5}{8}$	$\frac{11}{16}$	$3\frac{3}{16}$
$2\frac{3}{16}$	$2\frac{1}{4}$	13	$2\frac{29}{32}$	7	$2\frac{1}{2}$	$5\frac{5}{8}$	$\frac{5}{8}$	$\frac{11}{16}$	$3\frac{7}{8}$
$2\frac{7}{16}$	$2\frac{1}{2}$	17	$2\frac{49}{64}$	$7\frac{3}{8}$	$3\frac{1}{16}$	$5\frac{7}{8}$	$\frac{5}{8}$	$\frac{11}{16}$	$4\frac{3}{8}$
$2\frac{11}{16}$	3	22	$2\frac{65}{64}$	$7\frac{5}{4}$	$3\frac{1}{2}$	6	$\frac{3}{4}$	$\frac{7}{8}$	5
$3\frac{1}{16}$	$3\frac{1}{2}$	29	$3\frac{13}{32}$	$8\frac{7}{16}$	$3\frac{31}{32}$	$6\frac{3}{4}$	$\frac{3}{4}$	1	$5\frac{5}{8}$

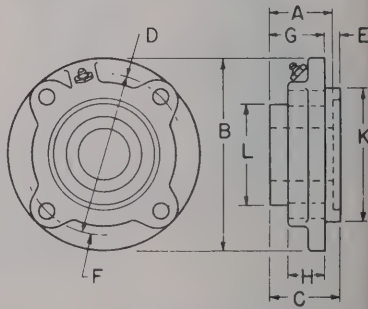
Furnished in Non-Expansion type only.

DODGE SCM BALL BEARING FLANGE CARTRIDGE MOUNTS



Dodge SCM Ball Bearing Flange Mounts offer a simple means of mounting within vertical or horizontal frames or supports. A pilot surface is provided for accurate centering in the hole of the frame.

They are compact in design and offer the same inherent advantages as the Dodge SCM Ball Bearing Pillow Blocks shown on the preceding pages.



Shaft Size	Other Sizes Available	Wt.	A	B	C	D	E	F Bolt	G	H	* K	L
$\frac{17}{16}$	...	4.7	$1\frac{3}{4}$	$5\frac{1}{4}$	$1\frac{15}{16}$	$4\frac{3}{8}$	$\frac{7}{16}$	$\frac{7}{16}$	$1\frac{1}{2}$	$\frac{63}{64}$	$3\frac{5}{8}$	$2\frac{3}{4}$
$1\frac{1}{2}$	...	4.7	$1\frac{13}{16}$	$5\frac{1}{4}$	$1\frac{15}{16}$	$4\frac{3}{8}$	$\frac{7}{16}$	$\frac{7}{16}$	$1\frac{1}{2}$	$\frac{63}{64}$	$3\frac{5}{8}$	$2\frac{3}{4}$
$1\frac{11}{16}$	$1\frac{3}{4}$	7.3	$1\frac{29}{32}$	$6\frac{1}{8}$	$2\frac{1}{32}$	$5\frac{1}{8}$	$\frac{15}{32}$	$\frac{1}{2}$	$1\frac{9}{16}$	$\frac{63}{64}$	$4\frac{1}{4}$	$3\frac{1}{16}$
$1\frac{15}{16}$	2	8.1	$2\frac{3}{16}$	$6\frac{3}{8}$	$2\frac{3}{16}$	$5\frac{3}{8}$	$\frac{5}{8}$	$\frac{1}{2}$	$1\frac{9}{16}$	1	$4\frac{1}{2}$	$3\frac{7}{16}$
$2\frac{3}{16}$	$2\frac{1}{4}$	9.7	$2\frac{29}{32}$	$7\frac{1}{8}$	$2\frac{9}{16}$	6	$\frac{7}{8}$	$\frac{1}{2}$	$1\frac{11}{16}$	1	5	$3\frac{7}{8}$
$2\frac{7}{16}$	$2\frac{1}{2}$	14.0	$2\frac{49}{64}$	$7\frac{5}{8}$	$2\frac{15}{16}$	$6\frac{1}{2}$	$1\frac{1}{8}$	$\frac{1}{2}$	$1\frac{13}{16}$	$1\frac{1}{16}$	$5\frac{1}{2}$	$4\frac{3}{8}$
$2\frac{11}{16}$	3	20.0	$2\frac{63}{64}$	$8\frac{3}{4}$	$3\frac{1}{4}$	$7\frac{1}{2}$	$1\frac{1}{4}$	$\frac{5}{8}$	2	$\frac{13}{16}$	$6\frac{3}{8}$	5
$3\frac{1}{16}$	$3\frac{1}{2}$	34.5	$3\frac{13}{32}$	$10\frac{1}{4}$	$3\frac{25}{32}$	$8\frac{5}{8}$	$1\frac{1}{8}$	$\frac{3}{4}$	$2\frac{21}{32}$	$1\frac{5}{8}$	$7\frac{3}{8}$	$5\frac{5}{8}$

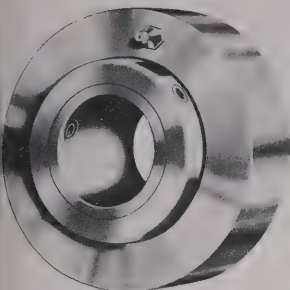
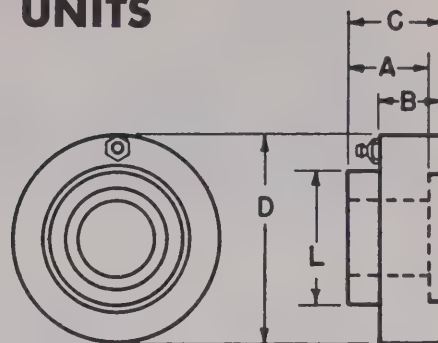
Furnished in Non-Expansion type only.

*+.000" -.002"

DODGE SC BALL BEARING UNITS

SC Cylindrical Units

This unit is adapted for machine applications where suitable holes can be provided in the frame of the machine. The housing is of cast iron and is finished all over. Two set screws insure firm fastening to shaft.



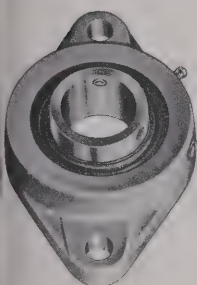
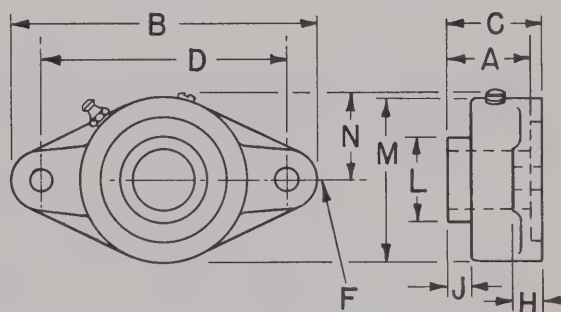
Shaft Size	Other Sizes Available	Wt.	A	B	C	* D	L
$\frac{15}{16}$	$\frac{7}{8}, 1$	1.5	$\frac{17}{32}$	$\frac{15}{16}$	$\frac{115}{64}$	$3\frac{1}{8}$	$\frac{123}{64}$
$\frac{13}{16}$	$\frac{11}{16}, \frac{11}{8}$	2.0	$\frac{115}{32}$	1	$\frac{131}{64}$	$3\frac{1}{2}$	$\frac{131}{32}$
$\frac{11}{16}$	$1\frac{1}{4}, \frac{15}{16}, \frac{13}{8}$	2.7	$\frac{143}{64}$	$1\frac{1}{8}$	$\frac{145}{64}$	$3\frac{7}{8}$	$2\frac{1}{4}$

Furnished in Non-Expansion type only.

*+.000"—.002".

SC 2 Bolt Flange Bearings

This Bearing is identical to the 4 Bolt SC Unit except the housing uses 2 bolt instead of 4 bolt construction. The compact housing is ideal for applications where space limitations are encountered.



Shaft Size	Other Sizes Available	Wt.	A	B	C	D	F Bolt	H	J	L	M	N
$\frac{3}{4}$	$\frac{1}{2}, \frac{5}{8}$	1.3	$\frac{13}{16}$	$\frac{413}{32}$	$\frac{111}{32}$	3	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{16}$	$\frac{15}{32}$	$\frac{23}{16}$	$\frac{15}{16}$
$\frac{15}{16}$	$\frac{7}{8}, 1$	1.8	$\frac{17}{32}$	$\frac{47}{8}$	$\frac{111}{32}$	$\frac{357}{64}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{9}{32}$	$\frac{123}{64}$	$\frac{23}{4}$	$\frac{17}{16}$
$\frac{13}{16}$	$1\frac{1}{16}, 1\frac{1}{8}$	2.2	$\frac{113}{32}$	$\frac{59}{16}$	$\frac{139}{64}$	$\frac{419}{32}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{31}{64}$	$\frac{131}{32}$	$3\frac{1}{4}$	$\frac{15}{8}$
$\frac{17}{16}$	$1\frac{1}{4}, \frac{15}{16}, \frac{13}{8}$	3.0	$\frac{143}{64}$	$\frac{61}{8}$	$\frac{159}{64}$	$\frac{51}{8}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{35}{64}$	$\frac{21}{4}$	$3\frac{3}{4}$	$\frac{129}{32}$
$\frac{11}{2}$	$\frac{15}{8}$	4.3	$\frac{129}{32}$	$\frac{63}{4}$	$\frac{163}{64}$	$\frac{521}{32}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{35}{64}$	$\frac{23}{4}$	4	$\frac{23}{16}$
$\frac{11}{16}$	$\frac{13}{4}$	4.6	$\frac{157}{64}$	$\frac{71}{16}$	$\frac{27}{64}$	$\frac{521}{32}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{39}{64}$	$\frac{215}{16}$	$\frac{43}{8}$	$\frac{23}{16}$
$\frac{15}{16}$	2	5.5	$\frac{131}{32}$	$\frac{77}{16}$	$\frac{211}{64}$	$\frac{63}{16}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{39}{64}$	$\frac{31}{16}$	$\frac{47}{16}$	$\frac{213}{32}$

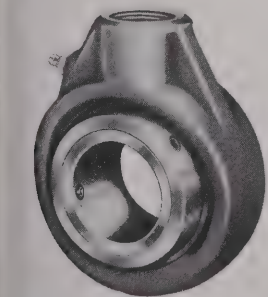
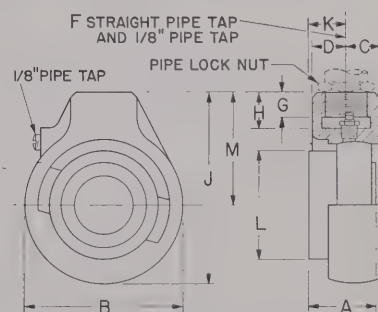
Furnished in Non-Expansion type only.

DODGE SC SCREW CONVEYOR HANGER BEARINGS

This bearing is recommended for use with screw conveyors, handling nonabrasive materials.

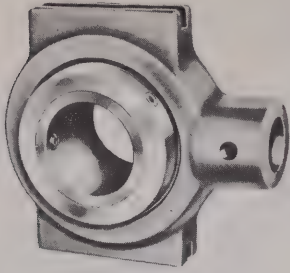
Bearing unit is threaded for mounting on pipe.

Lubrication can be supplied through side fitting or through $\frac{1}{8}$ " pipe within hanger pipe.



Shaft Size	Other Sizes Available	A	B	C	D	F *	G	H	J	K	L	M
$1\frac{1}{2}$	$1\frac{5}{8}$	$\frac{125}{32}$	4	$\frac{53}{64}$	$\frac{53}{64}$	$\frac{3}{4}$	$\frac{5}{8}$	$\frac{15}{16}$	$\frac{47}{8}$	$\frac{11}{32}$	$\frac{23}{4}$	$\frac{27}{8}$
2	$\frac{15}{16}$	$\frac{131}{32}$	$4\frac{5}{8}$	$\frac{7}{8}$	$\frac{15}{16}$	1	$\frac{13}{16}$	$\frac{11}{8}$	$\frac{59}{16}$	$\frac{11}{64}$	$\frac{31}{16}$	$\frac{31}{4}$
$2\frac{1}{16}$		$\frac{29}{32}$	$5\frac{1}{2}$	$\frac{15}{32}$	$\frac{15}{32}$	$1\frac{1}{4}$	$\frac{11}{8}$	$\frac{17}{16}$	$\frac{63}{4}$	$\frac{113}{64}$	$\frac{37}{8}$	4
3	$\frac{215}{16}$	$\frac{263}{64}$	7	$\frac{123}{64}$	$\frac{113}{32}$	$1\frac{1}{2}$	$\frac{11}{4}$	$\frac{111}{16}$	$\frac{83}{8}$	$\frac{139}{64}$	5	$\frac{47}{8}$

*A straight thread is recommended for the pipe.



DODGE

BALL BEARING TAKE-UP UNITS

These units consist of a Ball Bearing enclosed in a rugged cast iron outer housing provided with ways on each side for supporting guides. The housing has a hole for receiving the unthreaded end of an adjusting screw. Furnished in non-expansion type only.

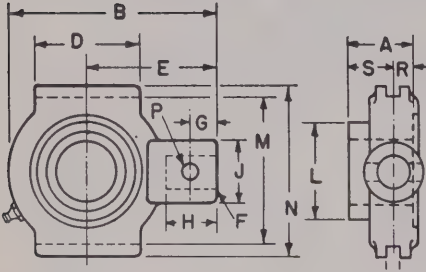
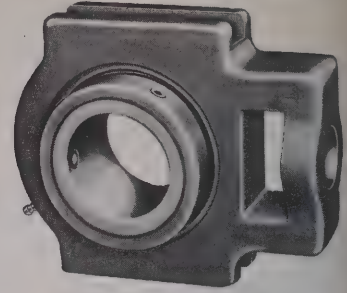


Fig. 1



Wide Slot Type

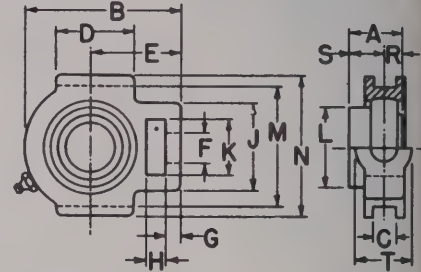


Fig. 2

SC Ball Bearing Take-Up Bearing (Fig. 1)

STANDARD DUTY

Shaft Size	Other Sizes Available	Wt.	A	B	C	D	E	F Screw	G	H	J	L	M	N	P Pin	R	S
$\frac{3}{4}$	$\frac{1}{2}, \frac{5}{8}$	1.4	$1\frac{1}{16}$	$3\frac{1}{2}$	$\frac{1}{4}$	$1\frac{1}{2}$	$2\frac{3}{16}$	$\frac{3}{4}$	$\frac{1}{16}$	$\frac{3}{8}$	$1\frac{1}{8}$	$1\frac{5}{16}$	$2\frac{3}{8}$	$3\frac{1}{8}$	$\frac{5}{16}$	$\frac{7}{16}$	$\frac{3}{4}$
$\frac{15}{16}$	$\frac{3}{8}, 1$	1.5	$1\frac{1}{8}$	$3\frac{3}{8}$	$\frac{1}{4}$	$1\frac{1}{2}$	$2\frac{3}{16}$	$\frac{3}{4}$	$\frac{1}{16}$	$\frac{3}{8}$	$1\frac{1}{8}$	$1\frac{3}{4}$	$2\frac{3}{8}$	$3\frac{1}{8}$	$\frac{5}{16}$	$\frac{3}{4}$	$\frac{5}{8}$
$1\frac{1}{8}$	$1\frac{1}{16}, 1\frac{1}{2}$	2.5	$1\frac{15}{16}$	$4\frac{1}{8}$	$\frac{1}{4}$	$2\frac{1}{2}$	$2\frac{11}{16}$	$\frac{3}{4}$	$\frac{1}{8}$	$1\frac{5}{8}$	$1\frac{1}{2}$	$1\frac{11}{16}$	$3\frac{1}{2}$	$4\frac{1}{8}$	$\frac{5}{16}$	$\frac{3}{4}$	$\frac{5}{8}$
$1\frac{3}{8}$	$1\frac{1}{4}, 1\frac{5}{8}, 1\frac{3}{4}$	2.7	$1\frac{43}{64}$	$4\frac{1}{2}$	$\frac{1}{4}$	$2\frac{1}{2}$	$2\frac{11}{16}$	$\frac{3}{4}$	$\frac{1}{2}$	$1\frac{5}{8}$	$1\frac{3}{8}$	$2\frac{1}{4}$	$3\frac{1}{2}$	$4\frac{1}{8}$	$\frac{5}{16}$	$\frac{3}{4}$	$1\frac{1}{4}$
$1\frac{1}{2}$	$1\frac{3}{8}$	5.0	$1\frac{25}{32}$	$5\frac{3}{8}$	$\frac{5}{16}$	3	$3\frac{3}{4}$	$\frac{7}{8}$	$1\frac{1}{16}$	$1\frac{3}{4}$	$1\frac{3}{8}$	$2\frac{3}{4}$	4	$4\frac{3}{4}$	$\frac{3}{8}$	$\frac{3}{4}$	$1\frac{3}{4}$
$1\frac{11}{16}$	$1\frac{3}{4}$	5.0	$1\frac{57}{64}$	$5\frac{7}{16}$	$\frac{5}{16}$	3	$3\frac{3}{4}$	$\frac{7}{8}$	$1\frac{1}{16}$	$1\frac{3}{4}$	$1\frac{3}{8}$	$2\frac{15}{16}$	4	$4\frac{3}{4}$	$\frac{3}{8}$	$\frac{3}{4}$	$1\frac{3}{4}$
$1\frac{15}{16}$	2	5.5	$1\frac{81}{64}$	$5\frac{1}{2}$	$\frac{5}{16}$	3	$3\frac{3}{4}$	$\frac{7}{8}$	$1\frac{1}{16}$	$1\frac{3}{4}$	$1\frac{3}{8}$	$3\frac{1}{8}$	4	$4\frac{3}{4}$	$\frac{3}{8}$	$\frac{3}{4}$	$1\frac{3}{4}$
$2\frac{3}{16}$	$2\frac{1}{4}$	7.2	$2\frac{15}{64}$	$6\frac{1}{8}$	$\frac{5}{16}$	$3\frac{1}{2}$	$3\frac{3}{8}$	1	$1\frac{1}{16}$	$1\frac{3}{4}$	$1\frac{3}{4}$	$3\frac{1}{8}$	$4\frac{7}{16}$	$5\frac{3}{8}$	$\frac{7}{16}$	$\frac{3}{4}$	$1\frac{3}{4}$
$2\frac{1}{2}$	.....	9.5	$2\frac{29}{32}$	$6\frac{3}{4}$	$\frac{5}{16}$	$3\frac{3}{4}$	$3\frac{7}{8}$	1	$1\frac{1}{16}$	$1\frac{3}{4}$	$1\frac{3}{4}$	$3\frac{3}{8}$	$4\frac{13}{16}$	$5\frac{3}{4}$	$\frac{7}{16}$	$\frac{3}{4}$	$1\frac{3}{4}$

SCM Ball Bearing Take-Up Units (Fig. 1)

MEDIUM DUTY

$1\frac{7}{16}$	.....	5.1	$1\frac{3}{4}$	$5\frac{3}{8}$	$\frac{5}{16}$	3	$3\frac{3}{4}$	$\frac{7}{8}$	$1\frac{1}{16}$	$1\frac{3}{4}$	$1\frac{3}{8}$	$2\frac{3}{4}$	4	$4\frac{3}{4}$	$\frac{3}{8}$	$\frac{3}{4}$	$1\frac{1}{4}$
$1\frac{1}{2}$	.....	5.2	$1\frac{13}{16}$	$5\frac{7}{8}$	$\frac{5}{16}$	3	$3\frac{3}{4}$	$\frac{7}{8}$	$1\frac{1}{16}$	$1\frac{3}{4}$	$1\frac{3}{8}$	$2\frac{15}{16}$	4	$4\frac{3}{4}$	$\frac{3}{8}$	$\frac{3}{4}$	$1\frac{1}{4}$
$1\frac{11}{16}$	$1\frac{3}{4}$	5.9	$1\frac{29}{32}$	$5\frac{1}{2}$	$\frac{5}{16}$	3	$3\frac{3}{4}$	$\frac{7}{8}$	$1\frac{1}{16}$	$1\frac{3}{4}$	$1\frac{3}{8}$	$2\frac{1}{2}$	4	$4\frac{3}{4}$	$\frac{3}{8}$	$\frac{3}{4}$	$1\frac{1}{4}$
$1\frac{15}{16}$	2	7.7	$2\frac{1}{16}$	$6\frac{1}{8}$	$\frac{5}{16}$	$3\frac{1}{2}$	$3\frac{3}{8}$	1	$1\frac{1}{16}$	$1\frac{3}{4}$	$1\frac{3}{4}$	$3\frac{7}{8}$	$4\frac{7}{16}$	$5\frac{3}{8}$	$\frac{7}{16}$	$\frac{3}{4}$	$1\frac{1}{4}$
$2\frac{3}{16}$	$2\frac{1}{4}$	10	$2\frac{29}{32}$	$6\frac{3}{4}$	$\frac{5}{16}$	$3\frac{3}{4}$	$3\frac{7}{8}$	1	$1\frac{1}{16}$	$1\frac{3}{4}$	$1\frac{3}{4}$	$3\frac{7}{8}$	$4\frac{13}{16}$	$5\frac{3}{4}$	$\frac{7}{16}$	$\frac{3}{4}$	$1\frac{1}{4}$

Wide Slot SC Ball Bearing Take-Up Bearings (Fig. 2)

STANDARD DUTY

Shaft Size	Other Sizes Available	Wt.	A	B	C	D	E	F Hole	G	H	J	K	L	M	N	R	S	T
$\frac{3}{4}$	$\frac{1}{2}, \frac{5}{8}$	2.1	$1\frac{1}{16}$	$3\frac{11}{16}$	$1\frac{7}{32}$	2	$2\frac{3}{8}$	$\frac{3}{4}$	$\frac{3}{8}$	$\frac{5}{8}$	2	$1\frac{1}{4}$	$1\frac{5}{16}$	3	$3\frac{5}{8}$	$\frac{7}{16}$	$\frac{3}{4}$	$1\frac{1}{4}$
$\frac{15}{16}$	$\frac{3}{8}, 1$	2.2	$1\frac{1}{8}$	$3\frac{13}{16}$	$1\frac{7}{32}$	2	$2\frac{7}{16}$	$\frac{3}{4}$	$\frac{3}{8}$	$\frac{5}{8}$	2	$1\frac{1}{4}$	$1\frac{23}{64}$	3	$3\frac{5}{8}$	$\frac{29}{64}$	$\frac{49}{64}$	$1\frac{1}{4}$
$1\frac{1}{8}$	$1\frac{1}{16}, 1\frac{1}{8}$	2.9	$1\frac{13}{16}$	$4\frac{3}{8}$	$1\frac{7}{32}$	$2\frac{1}{4}$	$2\frac{3}{4}$	$\frac{7}{8}$	$\frac{3}{8}$	$\frac{5}{8}$	$2\frac{3}{16}$	$1\frac{7}{8}$	$1\frac{31}{32}$	$3\frac{1}{2}$	$4\frac{1}{8}$	$\frac{31}{64}$	$\frac{63}{64}$	$1\frac{1}{8}$
$1\frac{1}{16}$	$1\frac{1}{4}, 1\frac{1}{2}, 1\frac{3}{4}$	3.6	$1\frac{48}{64}$	$4\frac{7}{8}$	$1\frac{7}{32}$	$2\frac{1}{2}$	$3\frac{1}{8}$	$\frac{7}{8}$	$\frac{3}{8}$	$\frac{5}{8}$	$2\frac{1}{2}$	$1\frac{7}{8}$	$2\frac{1}{4}$	$3\frac{1}{2}$	$4\frac{1}{8}$	$\frac{9}{16}$	$1\frac{7}{16}$	$1\frac{1}{8}$
$1\frac{1}{2}$	$1\frac{3}{8}$	6.2	$1\frac{25}{32}$	$5\frac{11}{16}$	$1\frac{1}{16}$	$3\frac{1}{4}$	$3\frac{1}{2}$	$1\frac{1}{8}$	$\frac{5}{8}$	$\frac{3}{4}$	$3\frac{1}{4}$	$1\frac{15}{16}$	$2\frac{1}{4}$	4	$4\frac{5}{8}$	$\frac{37}{64}$	$1\frac{13}{16}$	$1\frac{1}{2}$
$1\frac{11}{16}$	$1\frac{3}{4}$	6.2	$1\frac{57}{64}$	$5\frac{5}{8}$	$1\frac{1}{16}$	$3\frac{3}{4}$	$3\frac{7}{16}$	$1\frac{1}{8}$	$\frac{5}{8}$	$\frac{3}{4}$	$3\frac{1}{4}$	$1\frac{15}{16}$	$2\frac{15}{16}$	4	$4\frac{3}{4}$	$\frac{19}{32}$	$1\frac{13}{16}$	$1\frac{1}{2}$
$1\frac{15}{16}$	2	6.7	$1\frac{81}{64}$	$5\frac{15}{16}$	$1\frac{1}{16}$	$3\frac{3}{8}$	$3\frac{1}{8}$	$1\frac{1}{8}$	$\frac{5}{8}$	$\frac{3}{4}$	$3\frac{3}{4}$	$1\frac{15}{16}$	$3\frac{1}{8}$	4	$4\frac{3}{4}$	$\frac{41}{64}$	$1\frac{21}{64}$	$1\frac{1}{2}$
$2\frac{3}{16}$	$2\frac{1}{4}$	11	$2\frac{15}{64}$	$6\frac{11}{16}$	$1\frac{1}{16}$	$3\frac{3}{4}$	$4\frac{1}{8}$	$1\frac{1}{8}$	$\frac{3}{4}$	1	4	$2\frac{1}{2}$	$3\frac{1}{8}$	$5\frac{1}{8}$	$5\frac{7}{8}$	$\frac{25}{32}$	$1\frac{29}{64}$	$2\frac{1}{4}$
$2\frac{1}{2}$	.....	12	$2\frac{29}{32}$	$7\frac{1}{2}$	$1\frac{1}{16}$	4	$4\frac{11}{16}$	$1\frac{3}{8}$	$\frac{3}{4}$	$1\frac{1}{4}$	4	$2\frac{1}{2}$	$3\frac{7}{8}$	$5\frac{1}{8}$	$5\frac{7}{8}$	$\frac{47}{64}$	$1\frac{35}{64}$	$2\frac{1}{4}$

SCM Ball Bearing Wide Slot Take-Up Units (Fig. 2)

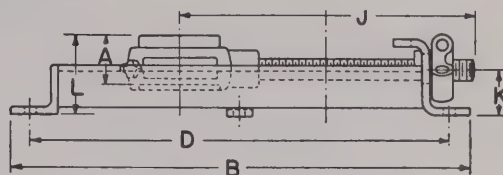
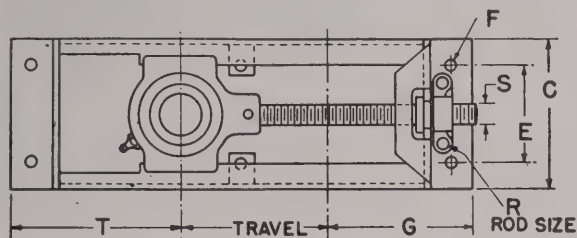
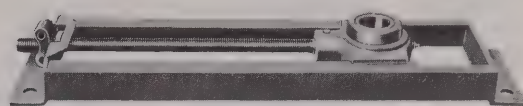
MEDIUM DUTY

$1\frac{1}{2}$	.....	6.4	$1\frac{13}{16}$	$5\frac{5}{8}$	$1\frac{1}{16}$	$3\frac{3}{4}$	$3\frac{7}{16}$	$1\frac{1}{8}$	$\frac{5}{8}$	$\frac{3}{4}$	$3\frac{1}{4}$	$1\frac{15}{16}$	$2\frac{15}{16}$	4	$4\frac{3}{4}$	$\frac{19}{32}$	$1\frac{7}{32}$	$1\frac{15}{16}$
$1\frac{11}{16}$	$1\frac{3}{4}$	7.1	$1\frac{29}{32}$	$5\frac{13}{16}$	$1\frac{1}{16}$	$3\frac{3}{8}$	$3\frac{3}{8}$	$1\frac{1}{8}$	$\frac{5}{8}$	$\frac{3}{4}$	$3\frac{3}{4}$	$1\frac{15}{16}$	$3\frac{1}{8}$	4	$4\frac{3}{4}$	$\frac{41}{64}$	$1\frac{17}{64}$	$1\frac{15}{16}$
$1\frac{15}{16}$	2	12	$2\frac{3}{16}$	$6\frac{11}{16}$	$1\frac{1}{16}$	$3\frac{3}{4}$	$4\frac{3}{16}$	$1\frac{3}{8}$	$\frac{3}{4}$	1	4	$2\frac{1}{2}$	$3\frac{1}{8}$	$5\frac{1}{8}$	$5\frac{7}{8}$	$\frac{25}{32}$	$1\frac{13}{32}$	$2\frac{1}{4}$
$2\frac{3}{16}$	$2\frac{1}{4}$	13	$2\frac{29}{32}$	$7\frac{1}{2}$	$1\frac{1}{16}$	4	$4\frac{1}{16}$	$1\frac{3}{8}$	$\frac{3}{4}$	$1\frac{1}{4}$	4	$2\frac{1}{2}$	$3\frac{3}{8}$	$5\frac{1}{8}$	$5\frac{7}{8}$	$\frac{25}{32}$	$1\frac{9}{16}$	$2\frac{1}{4}$
$2\frac{1}{2}$	$2\frac{1}{2}$	13	$2\frac{49}{64}$	$8\frac{1}{8}$	$1\frac{1}{16}$	$4\frac{3}{4}$	$5\frac{3}{8}$	$1\frac{5}{8}$	$\frac{13}{16}$	$1\frac{1}{4}$	$4\frac{3}{8}$	$2\frac{3}{4}$	$4\frac{3}{8}$	$5\frac{15}{16}$	$6\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{3}{4}$	$2\frac{1}{4}$
$2\frac{15}{16}$	3	16	$2\frac{63}{64}$	$9\frac{1}{8}$	$1\frac{1}{16}$	$4\frac{3}{4}$	$5\frac{1}{2}$	$1\frac{5}{8}$	$\frac{13}{16}$	$1\frac{1}{4}$	$4\frac{3}{8}$	$2\frac{3}{4}$	5	$6\frac{1}{2}$	$7\frac{1}{4}$	$1\frac{3}{4}$	$1\frac{15}{16}$	$2\frac{1}{4}$

DODGE BALL BEARING TAKE-UPS

SC—SCM SERIES

Incorporate Dodge Ball Bearing units. The welded steel frame provides maximum strength and rigidity without excess weight. Adjustment is accomplished by turning the brass capstan nut.



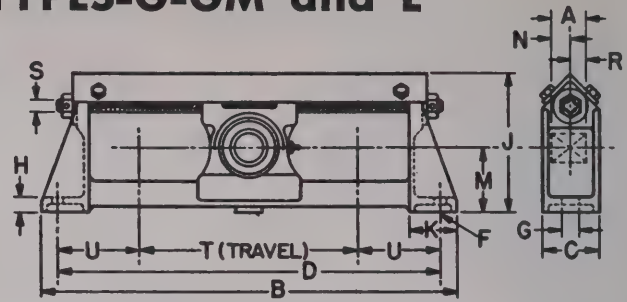
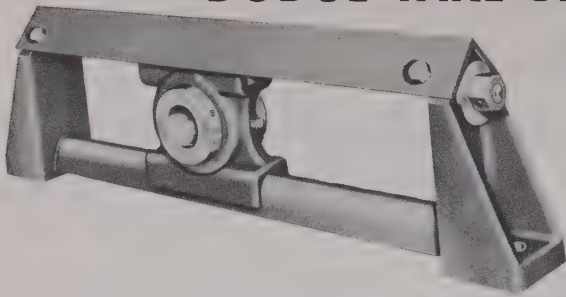
SC BALL BEARING TAKE-UPS—STANDARD DUTY

Shaft Size	Other Sizes Available	Travel Inches	Wt.	A	B	C	D	E	F Bolt		G	J	K	L	R	S	T
									No.	Diam.							
3/4	1/2, 5/8	5	7	13/16	14 3/4	4 1/4	13 1/2	2 3/4	4	3/8	4 3/4	8 7/8	1 9/16	2 5/16	3/8	3/4	5
1 1/16	7/8, 1	5	6.6	1 1/2	14 3/4	4 1/4	13 1/2	2 3/4	4	3/8	4 3/4	8 7/8	1 9/16	2 5/16	3/8	3/4	5
1 1/8	1 1/16, 1 1/8	6	9.5	1 13/32	17	5 1/2	15 1/2	3 1/2	4	1/2	5 1/8	10 3/4	1 5/8	2 9/16	3/8	3/4	5 7/8
1 1/16	1 1/16, 1 1/8	12	11	1 13/32	23	5 1/2	21 1/2	3 1/2	4	1/2	5 1/8	16 3/4	1 5/8	2 9/16	3/8	3/4	5 7/8
1 1/16	1 1/4, 1 1/16, 1 3/8	6	9.7	1 5/8	17	5 1/2	15 1/2	3 1/2	4	1/2	5 1/8	10 3/4	1 5/8	2 23/32	3/8	3/4	5 7/8
1 1/16	1 1/4, 1 1/16, 1 3/8	12	12	1 5/8	23	5 1/2	21 1/2	3 1/2	4	1/2	5 1/8	16 3/4	1 5/8	2 23/32	3/8	3/4	5 7/8
1 1/2	1 5/8	6	13	1 3/4	19	6 1/4	17 1/4	4	4	1/2	6	11	1 7/8	3 1/16	1/2	7/8	7
1 1/2	1 5/8	9	15	1 3/4	22	6 1/4	20 1/4	4	4	1/2	6	14	1 7/8	3 1/16	1/2	7/8	7
1 1/2	1 5/8	12	17	1 3/4	25	6 1/4	23 1/4	4	4	1/2	6	17	1 7/8	3 1/16	1/2	7/8	7
1 1/2	1 5/8	18	22	1 3/4	31	6 1/4	29 1/4	4	4	1/2	6	23	1 7/8	3 1/16	1/2	7/8	7
1 11/16	1 3/4	6	16	1 13/16	19	6 1/4	17 1/4	4	4	1/2	6	11	1 7/8	3 3/32	1/2	7/8	7
1 11/16	1 3/4	9	18	1 13/16	22	6 1/4	20 1/4	4	4	1/2	6	14	1 7/8	3 3/32	1/2	7/8	7
1 11/16	1 3/4	12	20	1 13/16	25	6 1/4	23 1/4	4	4	1/2	6	17	1 7/8	3 3/32	1/2	7/8	7
1 11/16	1 3/4	18	24	1 13/16	31	6 1/4	29 1/4	4	4	1/2	6	23	1 7/8	3 3/32	1/2	7/8	7
1 15/16	2	6	16	1 29/32	19	6 1/4	17 1/4	4	4	1/2	6	11	1 7/8	3 1/8	1/2	7/8	7
1 15/16	2	9	18	1 29/32	22	6 1/4	20 1/4	4	4	1/2	6	14	1 7/8	3 1/8	1/2	7/8	7
1 15/16	2	12	20	1 29/32	25	6 1/4	23 1/4	4	4	1/2	6	17	1 7/8	3 1/8	1/2	7/8	7
1 15/16	2	18	24	1 29/32	31	6 1/4	29 1/4	4	4	1/2	6	23	1 7/8	3 1/8	1/2	7/8	7
2 3/16	2 1/4	9	25	2 1/16	23 1/2	7	21 1/2	4 1/2	4	5/8	6 3/4	15 1/4	2 1/8	3 17/32	1/2	1	7 3/4
2 3/16	2 1/4	18	31	2 3/16	32 1/2	7	30 1/2	4 1/2	4	5/8	6 3/4	24 1/4	2 1/8	3 17/32	1/2	1	7 3/4
2 7/16	.....	9	28	2 3/32	26 1/2	7 1/2	24 1/2	5	4	5/8	8 1/4	15 1/2	2 1/8	3 11/16	1/2	1	9 1/4
2 7/16	.....	18	35	2 3/32	35 1/2	7 1/2	33 1/2	5	4	5/8	8 1/4	24 1/2	2 1/8	3 11/16	1/2	1	9 1/4

SCM BALL BEARING TAKE-UPS—MEDIUM DUTY

1 7/16	...	6	13	1 3/4	19	6 1/4	17 1/4	4	4	1/2	6	11	1 7/8	3 1/16	1/2	7/8	7
1 7/16	...	9	15	1 3/4	22	6 1/4	20 1/4	4	4	1/2	6	14	1 7/8	3 1/16	1/2	7/8	7
1 7/16	...	12	17	1 3/4	25	6 1/4	23 1/4	4	4	1/2	6	17	1 7/8	3 1/16	1/2	7/8	7
1 7/16	...	18	22	1 3/4	31	6 1/4	29 1/4	4	4	1/2	6	23	1 7/8	3 1/16	1/2	7/8	7
1 1/2	...	6	16	1 13/16	19	6 1/4	17 1/4	4	4	1/2	6	11	1 7/8	3 3/32	1/2	7/8	7
1 1/2	...	9	18	1 13/16	22	6 1/4	20 1/4	4	4	1/2	6	14	1 7/8	3 3/32	1/2	7/8	7
1 1/2	...	12	20	1 13/16	25	6 1/4	23 1/4	4	4	1/2	6	17	1 7/8	3 3/32	1/2	7/8	7
1 1/2	...	18	24	1 13/16	31	6 1/4	29 1/4	4	4	1/2	6	23	1 7/8	3 3/32	1/2	7/8	7
1 11/16	1 3/4	6	16	1 29/32	19	6 1/4	17 1/4	4	4	1/2	6	11	1 7/8	3 1/8	1/2	7/8	7
1 11/16	1 3/4	9	18	1 29/32	22	6 1/4	20 1/4	4	4	1/2	6	14	1 7/8	3 1/8	1/2	7/8	7
1 11/16	1 3/4	12	20	1 29/32	25	6 1/4	23 1/4	4	4	1/2	6	17	1 7/8	3 1/8	1/2	7/8	7
1 11/16	1 3/4	18	24	1 29/32	31	6 1/4	29 1/4	4	4	1/2	6	23	1 7/8	3 1/8	1/2	7/8	7
1 15/16	2	9	26	2 3/16	23 1/2	7	21 1/2	4 1/2	4	5/8	6 3/4	15 1/4	2 1/8	3 17/32	1/2	1	7 3/4
1 15/16	2	18	32	2 3/16	32 1/2	7	30 1/2	4 1/2	4	5/8	6 3/4	24 1/4	2 1/8	3 17/32	1/2	1	7 3/4
2 3/16	2 1/4	9	29	2 3/32	26 1/2	7 1/2	24 1/2	5	4	5/8	8 1/4	15 1/2	2 1/8	3 11/16	1/2	1	9 1/4
2 3/16	2 1/4	18	36	2 3/32	35 1/2	7 1/2	33 1/2	5	4	5/8	8 1/4	24 1/2	2 1/8	3 11/16	1/2	1	9 1/4

†Center bolts are located central with end bolts.

DODGE TAKE-UPS—TYPES-G-GM and E

The bearings used in G and GM take-ups are deep groove ball bearings with a long inner race and are fully self-aligning. Timken roller bearings are used in the E type take-up. They have high radial and thrust capacity and there is sufficient self-alignment in the design to compensate for any normal misalignment. Bearings are effectively sealed to retain lubricant and exclude dust and dirt.

Positive adjustment of take-up is effected by turning screw head at either end of take-up. Adjusting screws are plated and the angle top member protects screw from dust and dirt. The types G and GM take-ups are designed for general conveyor service while the type E is ideally adapted for severe service conditions.

Type G Ball Bearing Take-Ups**STANDARD DUTY**

Shaft Size	Other Sizes Available	† Travel	Wt.	A	B	C	D	F Bolt	G	H	J	K	M	†† N	R	S Screw Diam.	T	U
1 ¹⁵ / ₁₆	2	12	41	1 ²⁹ / ₃₂	28 1/2	3 1/2	26 1/2	5/8	1	7/8	8 ⁷ / ₁₆	3	3 ¹⁵ / ₁₆	11 ⁷ / ₆₄	4 ¹ / ₆₄	3/4	14 1/2	6
1 ¹¹ / ₁₆	2	18	45	1 ²⁹ / ₃₂	34 1/2	3 1/2	32 1/2	5/8	1	7/8	8 ⁷ / ₁₆	3	3 ¹⁵ / ₁₆	11 ⁷ / ₆₄	4 ¹ / ₆₄	3/4	20 1/2	6
1 ¹¹ / ₁₆	2	24	49	1 ²⁹ / ₃₂	40 1/2	3 1/2	38 1/2	5/8	1	7/8	8 ⁷ / ₁₆	3	3 ¹⁵ / ₁₆	11 ⁷ / ₆₄	4 ¹ / ₆₄	3/4	26 1/2	6
2 ³ / ₁₆	2 1/4	12	44	2 ³ / ₁₆	29 1/2	3 1/2	27 1/2	5/8	1	7/8	9 ¹ / ₁₆	3	4 ³ / ₁₆	11 ³ / ₃₂	2 ²⁵ / ₃₂	3/4	15	6 1/4
2 ³ / ₁₆	2 1/4	18	49	2 ³ / ₁₆	35 1/2	3 1/2	33 1/2	5/8	1	7/8	9 ¹ / ₁₆	3	4 ³ / ₁₆	11 ³ / ₃₂	2 ²⁵ / ₃₂	3/4	21	6 1/4
2 ³ / ₁₆	2 1/4	24	53	2 ³ / ₁₆	41 1/2	3 1/2	39 1/2	5/8	1	7/8	9 ¹ / ₁₆	3	4 ³ / ₁₆	11 ³ / ₃₂	2 ²⁵ / ₃₂	3/4	27	6 1/4
2 ⁷ / ₁₆	.....	12	58	2 ⁹ / ₃₂	30 1/2	4	28 1/2	3/4	1 ⁵ / ₁₆	7/8	9 ⁷ / ₁₆	3 1/2	4 ³ / ₈	1 ⁹ / ₁₆	2 ²⁵ / ₃₂	1	14 1/2	7
2 ⁷ / ₁₆	.....	18	64	2 ⁹ / ₃₂	36 1/2	4	34 1/2	3/4	1 ⁵ / ₁₆	7/8	9 ⁷ / ₁₆	3 1/2	4 ³ / ₈	1 ⁹ / ₁₆	2 ²⁵ / ₃₂	1	20 1/2	7
2 ⁷ / ₁₆	.....	24	69	2 ⁹ / ₃₂	42 1/2	4	40 1/2	3/4	1 ⁵ / ₁₆	7/8	9 ⁷ / ₁₆	3 1/2	4 ³ / ₈	1 ⁹ / ₁₆	2 ²⁵ / ₃₂	1	26 1/2	7

††Set screws for locking to shaft are on this side of take-up.

Type GM Ball Bearing Take-Ups**MEDIUM DUTY**

1 ¹¹ / ₁₆	1 3/4	12	41	1 ²⁹ / ₃₂	28 1/2	3 1/2	26 1/2	5/8	1	7/8	8 ⁷ / ₁₆	3	3 ¹⁵ / ₁₆	11 ⁷ / ₆₄	4 ¹ / ₆₄	3/4	14 1/2	6
1 ¹¹ / ₁₆	1 3/4	18	45	1 ²⁹ / ₃₂	34 1/2	3 1/2	32 1/2	5/8	1	7/8	8 ⁷ / ₁₆	3	3 ¹⁵ / ₁₆	11 ⁷ / ₆₄	4 ¹ / ₆₄	3/4	20 1/2	6
1 ¹¹ / ₁₆	1 3/4	24	49	1 ²⁹ / ₃₂	40 1/2	3 1/2	38 1/2	5/8	1	7/8	8 ⁷ / ₁₆	3	3 ¹⁵ / ₁₆	11 ⁷ / ₆₄	4 ¹ / ₆₄	3/4	26 1/2	6
1 ¹⁵ / ₁₆	2	12	44	2 ³ / ₁₆	29 1/2	3 1/2	27 1/2	5/8	1	7/8	9 ¹ / ₁₆	3	4 ³ / ₁₆	11 ³ / ₃₂	2 ²⁵ / ₃₂	3/4	15	6 1/4
1 ¹⁵ / ₁₆	2	18	49	2 ³ / ₁₆	35 1/2	3 1/2	33 1/2	5/8	1	7/8	9 ¹ / ₁₆	3	4 ³ / ₁₆	11 ³ / ₃₂	2 ²⁵ / ₃₂	3/4	21	6 1/4
1 ¹⁵ / ₁₆	2	24	53	2 ³ / ₁₆	41 1/2	3 1/2	39 1/2	5/8	1	7/8	9 ¹ / ₁₆	3	4 ³ / ₁₆	11 ³ / ₃₂	2 ²⁵ / ₃₂	3/4	27	6 1/4
2 ³ / ₁₆	2 1/4	12	58	2 ⁹ / ₃₂	30 1/2	4	28 1/2	3/4	1 ⁵ / ₁₆	7/8	9 ⁷ / ₁₆	3 1/2	4 ³ / ₈	1 ⁹ / ₁₆	2 ²⁵ / ₃₂	1	14 1/2	7
2 ³ / ₁₆	2 1/4	18	64	2 ⁹ / ₃₂	36 1/2	4	34 1/2	3/4	1 ⁵ / ₁₆	7/8	9 ⁷ / ₁₆	3 1/2	4 ³ / ₈	1 ⁹ / ₁₆	2 ²⁵ / ₃₂	1	20 1/2	7
2 ³ / ₁₆	2 1/4	24	69	2 ⁹ / ₃₂	42 1/2	4	40 1/2	3/4	1 ⁵ / ₁₆	7/8	9 ⁷ / ₁₆	3 1/2	4 ³ / ₈	1 ⁹ / ₁₆	2 ²⁵ / ₃₂	1	26 1/2	7
2 ⁷ / ₁₆	2 1/2	12	82	2 ⁴⁹ / ₆₄	32 1/2	4 1/2	30 1/2	5/8	1	7/8	10 ⁷ / ₁₆	3 1/2	5	1 ³ / ₄	1 ¹ / ₄	1	15 1/2	7 1/2
2 ⁷ / ₁₆	2 1/2	18	88	2 ⁴⁹ / ₆₄	38 1/2	4 1/2	36 1/2	5/8	1	7/8	10 ⁷ / ₁₆	3 1/2	5	1 ³ / ₄	1 ¹ / ₄	1	21 1/2	7 1/2
2 ⁷ / ₁₆	2 1/2	24	93	2 ⁴⁹ / ₆₄	44 1/2	4 1/2	42 1/2	5/8	1	7/8	10 ⁷ / ₁₆	3 1/2	5	1 ³ / ₄	1 ¹ / ₄	1	27 1/2	7 1/2
2 ¹⁵ / ₁₆	3	12	105	2 ⁶³ / ₆₄	34 1/4	4 1/2	32	3/4	1	7/8	12 ³ / ₈	4	5 1/2	1 ¹⁵ / ₁₆	1 ³ / ₄	1 1/4	15	8 1/2
2 ¹⁵ / ₁₆	3	18	113	2 ⁶³ / ₆₄	40 1/4	4 1/2	38	3/4	1	7/8	12 ³ / ₈	4	5 1/2	1 ¹⁵ / ₁₆	1 ³ / ₄	1 1/4	21	8 1/2
2 ¹⁵ / ₁₆	3	24	120	2 ⁶³ / ₆₄	46 1/4	4 1/2	44	3/4	1	7/8	12 ³ / ₈	4	5 1/2	1 ¹⁵ / ₁₆	1 ³ / ₄	1 1/4	27	8 1/2
3 ⁷ / ₁₆	3 1/2	12	151	3 ¹³ / ₃₂	38 1/2	5 1/2	36	3/4	1	7/8	14 1/4	4 1/2	7	2 ¹³ / ₁₆	1 ¹³ / ₁₆	1 1/4	16 1/2	9 3/4
3 ⁷ / ₁₆	3 1/2	18	159	3 ¹³ / ₃₂	44 1/2	5 1/2	42	3/4	1	7/8	14 1/4	4 1/2	7	2 ¹³ / ₁₆	1 ¹³ / ₁₆	1 1/4	22 1/2	9 3/4
3 ⁷ / ₁₆	3 1/2	24	166	3 ¹³ / ₃₂	50 1/2	5 1/2	48	3/4	1	7/8	14 1/4	4 1/2	7	2 ¹³ / ₁₆	1 ¹³ / ₁₆	1 1/4	28 1/2	9 3/4

††Set screws for locking to shaft are on this side of take-up.

Dodge-Timken Type E Take-Ups**ROLLER BEARING**

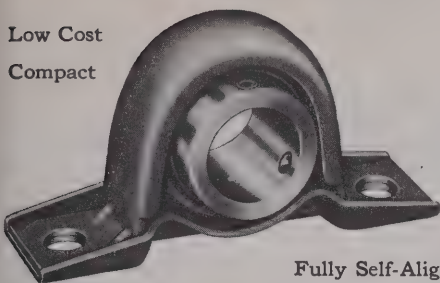
1 ¹⁵ / ₁₆	1 3/4, 2	12	46	3 1/2	28 1/2	3 1/2	26 1/2	5/8	1	7/8	8 ⁷ / ₁₆	3	3 ¹⁵ / ₁₆	.....	.....	3/4	14 1/2	6
1 ¹⁵ / ₁₆	1 3/4, 2	18	51	3 1/2	34 1/2	3 1/2	32 1/2	5/8	1	7/8	8 ⁷ / ₁₆	3	3 ¹⁵ / ₁₆	.....	.....	3/4	20 1/2	6
1 ¹⁵ / ₁₆	1 3/4, 2	24	52	3 1/2	40 1/2	3 1/2	38 1/2	5/8	1	7/8	8 ⁷ / ₁₆	3	3 ¹⁵ / ₁₆	.....	.....	3/4	26 1/2	6
2 ³ / ₁₆	.....	12	49	3 3/4	29 1/2	3 1/2	27 1/2	5/8	1	7/8	9 ¹ / ₁₆	3	4 ³ / ₁₆	.....	.....	3/4	15	6 1/4
2 ³ / ₁₆	.....	18	54	3 3/4	35 1/2	3 1/2	33 1/2	5/8	1	7/8	9 ¹ / ₁₆	3	4 ³ / ₁₆	.....	.....	3/4	21	6 1/4
2 ³ / ₁₆	.....	24	58	3 3/4	41 1/2	3 1/2	39 1/2	5/8	1	7/8	9 ¹ / ₁₆	3	4 ³ / ₁₆	.....	.....	3/4	27	6 1/4
2 ⁷ / ₁₆	2 1/4, 2 1/2	12	64	4	30 1/2	4	28 1/2	3/4	1 ⁵ / ₁₆	7/8	9 ⁷ / ₁₆	3 1/2	4 ³ / ₈	.....	.....	1	14 1/2	7
2 ⁷ / ₁₆	2 1/4, 2 1/2	18	70	4	36 1/2	4	34 1/2	3/4	1 ⁵ / ₁₆	7/8	9 ⁷ / ₁₆	3 1/2	4 ³ / ₈	.....	.....	1	20 1/2	7
2 ⁷ / ₁₆	2 1/4, 2 1/2	24	74	4	42 1/2	4	40 1/2	3/4	1 ⁵ / ₁₆	7/8	9 ⁷ / ₁₆	3 1/2	4 ³ / ₈	.....	.....	1	26 1/2	7
2 ¹⁵ / ₁₆	2 ¹¹ / ₁₆ , 3	12	77	4 1/2	32 1/2	4 1/2	30 1/2	5/8	1	7/8	10 ⁷ / ₁₆	3 1/2	5	.....	.....	1	15 1/2	7 1/2
2 ¹⁵ / ₁₆	2 ¹¹ / ₁₆ , 3	18	81	4 1/2	38 1/2	4 1/2	36 1/2	5/8	1	7/8	10 ⁷ / ₁₆	3 1/2	5	.....	.....	1	21 1/2	7 1/2
2 ¹⁵ / ₁₆	2 ¹¹ / ₁₆ , 3	24	86	4 1/2	44 1/2	4 1/2	42 1/2	5/8	1	7/8	10 ⁷ / ₁₆	3 1/2	5	.....	.....	1	27 1/2	7 1/2
3 ⁷ / ₁₆	3 ³ / ₁₆ , 3 1/2	12	103	5	34 1/4	4 1/2	32	3/4	1	7/8	12 ³ / ₈	4	5 1/2	.....	.....	1 1/4	15	8 1/2
3 ⁷ / ₁₆	3 ³ / ₁₆ , 3 1/2	18	109	5	40 1/4	4 1/2	38	3/4	1	7/8	12 ³ / ₈	4	5 1/2	.....	.....	1 1/4	21	8 1/2
3 ⁷ / ₁₆	3 ³ / ₁₆ , 3 1/2	24	121	5	46 1/4	4 1/2	44	3/4	1	7/8	12 ³ / ₈	4	5 1/2	.....	.....	1 1/4	27	8 1/2
3 ¹⁵ / ₁₆	4	12	143	6 1/4	38 1/2	5 1/2	36	3/4	1	7/8	14 1/4	4 1/2	7	.....	.....	1 1/4	16 1/2	9 3/4
3 ¹⁵ / ₁₆	4	18	150	6 1/4	44 1/2	5 1/2	42	3/4	1	7/8	14 1/4	4 1/2	7	.....	.....	1 1/4	22 1/2	9 3/4
3 ¹⁵ / ₁₆	4	24	157	6 1/4	50 1/2	5 1/2	48	3/4	1	7/8	14 1/4	4 1/2	7			1 1/4	28 1/2	9 3/4

†For actual travel available see dimension T.

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DODGE SL BALL BEARING PILLOW BLOCKS

Low Cost
Compact

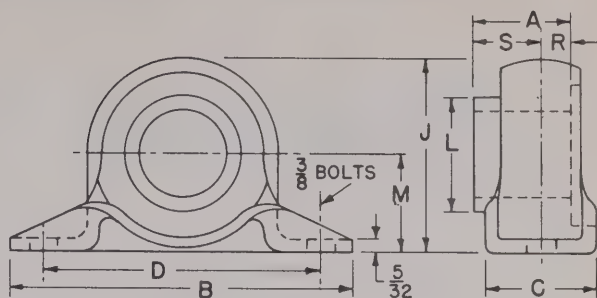


Fully Self-Aligning

Ideal for light machinery applications.

Sturdy two-piece formed Steel Housing.

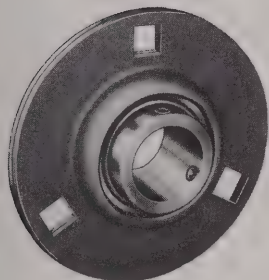
SEALED—Factory lubricated for life.



Shaft Size	Other Sizes Available	Wt.	A	B	C	D	J	L	M	R	S
3/4	.....	.66	1 1/16	3 7/8	1 1/4	3	2	1 5/32	1	7/16	3/4
1 1/16	7/8, 1	.75	1 7/32	4 1/4	1 1/4	3 3/8	2 1/4	1 3/8	1 1/8	29/64	49/64
1 3/16	1 1/8, 1 1/4	1.05	1 13/32	4 5/8	1 1/2	3 3/4	2 5/8	1 19/32	1 5/16	31/64	59/64

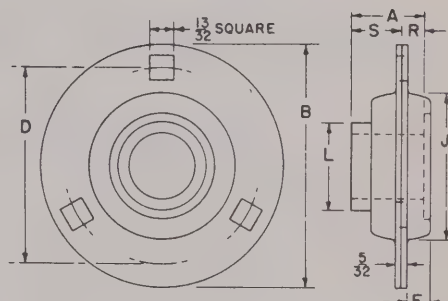
Furnished in Non-Expansion type only.

DODGE SL 3-BOLT FLANGE BALL BEARINGS



For mounting against vertical or horizontal frames or supports on light machinery and other general applications.

Flange Mounts have all the inherent advantages of the pillow blocks listed above. Square holes in the outer housing receive either carriage or machine bolts.



Shaft Size	Other Sizes Available	Wt.	A	B	D	E	†J	L	R	S
3/4	.....	.80	1 3/16	3 9/16	2 13/16	9/32	2 1/8	1 5/32	7/16	3/4
1 1/16	7/8, 1	.84	1 7/32	3 3/4	3	9/32	2 5/16	1 3/8	29/64	49/64
1 3/16	1 1/8, 1 1/4	1.30	1 13/32	4 7/16	3 9/16	5/16	2 11/16	1 19/32	31/64	59/64

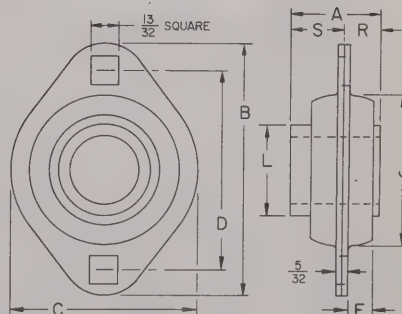
Furnished in Non-Expansion type only.

†Diameter of minimum frame opening.

DODGE SL 2-BOLT FLANGE BALL BEARINGS



The Dodge Two-bolt Flanges are designed for installations where the standard 3-bolt Flanges cannot be used because of space limitations. They are comprised of two interchangeable pressed steel flanges and a sealed factory lubricated wide inner ring ball bearing.



Shaft Size	Other Sizes Available	Wt.	A	B	C	D	E	†J	L	R	S
3/4	.....	.80	1 3/16	3 9/16	2 5/8	2 13/16	9/32	2 1/8	1 5/32	7/16	3/4
1 1/16	7/8, 1	.84	1 7/32	3 3/4	2 51/64	3	9/32	2 5/16	1 3/8	29/64	49/64
1 3/16	1 1/8, 1 1/4	1.30	1 13/32	4 7/16	3 5/16	3 9/16	5/16	2 11/16	1 19/32	31/64	59/64

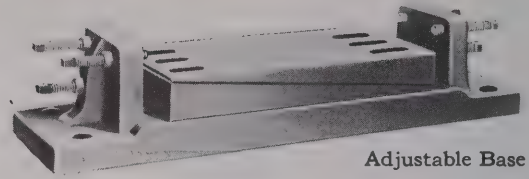
Furnished in Non-Expansion type only.

†Diameter of minimum frame opening.

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BASE PLATES FOR DODGE-TIMKEN PILLOW BLOCKS

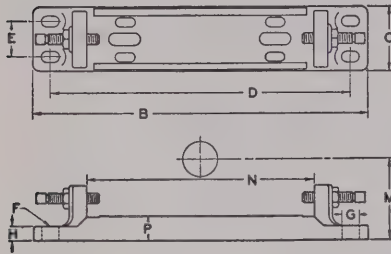
Plain Base Plate



Adjustable Base Plate

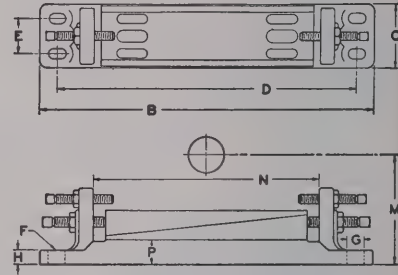
Base plates provide substantial support for bearings and also a simple method of obtaining shaft alignment at time of installation and re-alignment when slight changes occur in the supporting structure or foundation. The side screws provide support to the bearing in installations having side strains due to loads imposed by belts, gears or other types of drives.

The bottoms of base plates as regularly made are cast smooth, and the "M" (shaft center to base) dimension as given in tables is approximate. An extra charge is made when a machined bottom surface is required.



Plain Base Plate—This type is supplied without wedges and has horizontal adjustment only.

Adjustable Base Plate—This type is supplied with tapered wedges which permit a vertical adjustment of approximately $\frac{3}{16}$ " above or below normal position. Side screws provide for horizontal adjustment.

**BASE PLATES FOR DODGE-TIMKEN DOUBLE INTERLOCK PILLOW BLOCKS**

Shaft Size	Plain Base Plate		Adj. Base Plate		B	C	D	2-Bolt Base	*4-Bolt Base		G	H	N	P
	Wt.	†M	Wt.	†M				F-Bolt	E	F-Bolt				
1 $\frac{7}{16}$	11	3 $\frac{3}{4}$	17	5 $\frac{1}{4}$	17 $\frac{1}{4}$	2 $\frac{7}{8}$	15 $\frac{1}{4}$	$\frac{1}{2}$	1 $\frac{1}{2}$	$\frac{1}{2}$	1	$\frac{7}{8}$	10 $\frac{3}{4}$	1 $\frac{3}{8}$
1 $\frac{11}{16}$	14	4	21	5 $\frac{5}{8}$	18 $\frac{3}{4}$	3 $\frac{1}{8}$	16 $\frac{3}{4}$	$\frac{1}{2}$	1 $\frac{3}{4}$	$\frac{1}{2}$	1	$\frac{7}{8}$	12	1 $\frac{3}{8}$
1 $\frac{15}{16}$	19	4 $\frac{3}{8}$	27	6 $\frac{1}{8}$	20 $\frac{3}{4}$	3 $\frac{1}{4}$	18 $\frac{3}{4}$	$\frac{5}{8}$	1 $\frac{3}{4}$	$\frac{1}{2}$	1	1	13 $\frac{1}{2}$	1 $\frac{1}{2}$
2 $\frac{1}{16}$	23	4 $\frac{5}{8}$	33	6 $\frac{1}{2}$	22 $\frac{1}{2}$	3 $\frac{1}{2}$	20	$\frac{5}{8}$	1 $\frac{3}{4}$	$\frac{5}{8}$	1 $\frac{1}{4}$	1	14 $\frac{1}{4}$	1 $\frac{5}{8}$
2 $\frac{1}{2}$	26	5	38	7 $\frac{1}{8}$	24	3 $\frac{1}{2}$	21 $\frac{1}{2}$	$\frac{5}{8}$	1 $\frac{3}{4}$	$\frac{5}{8}$	1 $\frac{1}{4}$	1 $\frac{1}{8}$	15 $\frac{1}{2}$	1 $\frac{3}{4}$
2 $\frac{5}{16}$	33	5 $\frac{5}{8}$	48	8	26	3 $\frac{3}{4}$	23 $\frac{1}{2}$	$\frac{3}{4}$	2	$\frac{5}{8}$	1 $\frac{1}{4}$	1 $\frac{1}{8}$	17	1 $\frac{7}{8}$
3 $\frac{1}{16}$	49	6 $\frac{5}{8}$	75	9 $\frac{1}{4}$	30	4 $\frac{3}{8}$	27	$\frac{7}{8}$	2 $\frac{1}{4}$	$\frac{3}{4}$	1 $\frac{3}{8}$	1 $\frac{1}{4}$	19 $\frac{3}{4}$	2 $\frac{1}{8}$
3 $\frac{1}{2}$	64	7 $\frac{1}{4}$	97	10 $\frac{1}{8}$	31 $\frac{1}{2}$	5 $\frac{3}{8}$	28 $\frac{1}{2}$	1	3 $\frac{1}{4}$	$\frac{3}{4}$	1 $\frac{3}{8}$	1 $\frac{3}{8}$	21	2 $\frac{1}{4}$
4 $\frac{1}{16}$	77	8 $\frac{1}{8}$	115	11 $\frac{1}{8}$	33 $\frac{1}{2}$	5 $\frac{5}{8}$	30 $\frac{1}{2}$	1	3 $\frac{1}{2}$	$\frac{3}{4}$	1 $\frac{3}{8}$	1 $\frac{3}{8}$	22 $\frac{3}{4}$	2 $\frac{3}{8}$
4 $\frac{1}{2}$	97	8 $\frac{7}{8}$	143	12 $\frac{1}{8}$	36 $\frac{1}{2}$	6	33	1 $\frac{1}{4}$	3 $\frac{1}{2}$	$\frac{7}{8}$	1 $\frac{5}{8}$	1 $\frac{1}{2}$	24 $\frac{1}{4}$	2 $\frac{5}{8}$

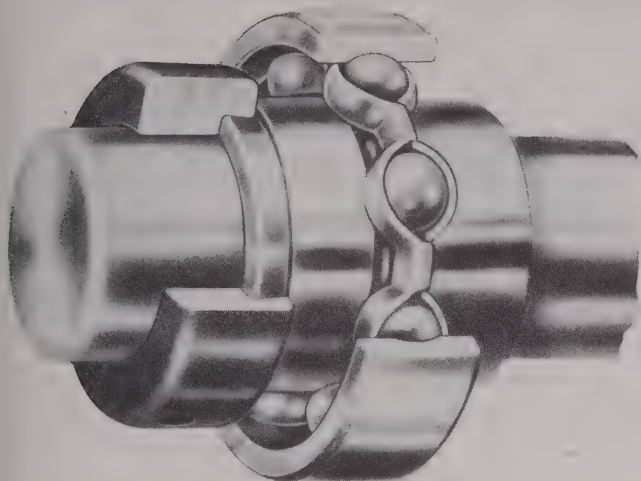
BASE PLATES FOR DODGE-TIMKEN PILLOW BLOCKS (TYPE C AND SPECIAL DUTY TYPES)

Shaft Size	Plain Base Plate		Adj. Base Plate		B	C	D	2-Bolt Base	*4-Bolt Base		G	H	N	P
	Wt.	†M	Wt.	†M				F-bolt	E	F-Bolt				
1 $\frac{7}{16}$	11	4 $\frac{3}{8}$	19	6	17 $\frac{1}{2}$	3 $\frac{1}{4}$	15 $\frac{1}{2}$	$\frac{1}{2}$	2	$\frac{1}{2}$	1	1	11 $\frac{3}{4}$	1 $\frac{1}{2}$
1 $\frac{11}{16}$	15	4 $\frac{5}{8}$	24	6 $\frac{1}{4}$	18 $\frac{1}{2}$	3 $\frac{5}{8}$	16 $\frac{1}{2}$	$\frac{1}{2}$	2 $\frac{1}{4}$	$\frac{1}{2}$	1	1	12 $\frac{1}{4}$	1 $\frac{1}{2}$
1 $\frac{15}{16}$	22	5	33	6 $\frac{3}{4}$	21 $\frac{1}{2}$	3 $\frac{3}{4}$	19	$\frac{5}{8}$	2 $\frac{1}{4}$	$\frac{5}{8}$	1 $\frac{1}{4}$	1 $\frac{1}{8}$	14	1 $\frac{3}{4}$
2 $\frac{1}{16}$	26	5 $\frac{1}{2}$	42	7 $\frac{1}{2}$	22 $\frac{1}{2}$	4 $\frac{1}{4}$	20	$\frac{5}{8}$	2 $\frac{1}{2}$	$\frac{5}{8}$	1 $\frac{1}{4}$	1 $\frac{1}{8}$	15	1 $\frac{3}{4}$
2 $\frac{1}{2}$	35	6	53	8 $\frac{1}{8}$	24	4 $\frac{1}{2}$	21 $\frac{1}{2}$	$\frac{3}{4}$	2 $\frac{1}{2}$	$\frac{5}{8}$	1 $\frac{1}{4}$	1 $\frac{1}{4}$	16 $\frac{1}{2}$	2
2 $\frac{5}{16}$	42	6 $\frac{3}{4}$	64	9	26	5	23 $\frac{1}{2}$	$\frac{3}{4}$	2 $\frac{3}{4}$	$\frac{5}{8}$	1 $\frac{1}{4}$	1 $\frac{1}{4}$	18	2
3 $\frac{1}{16}$	60	7 $\frac{1}{8}$	90	10 $\frac{1}{2}$	30	5 $\frac{3}{4}$	27	$\frac{7}{8}$	3 $\frac{1}{4}$	$\frac{3}{4}$	1 $\frac{1}{2}$	1 $\frac{3}{8}$	19 $\frac{3}{4}$	2 $\frac{3}{8}$
3 $\frac{1}{2}$	110	8 $\frac{7}{8}$	165	11 $\frac{7}{8}$	34 $\frac{1}{2}$	7 $\frac{3}{4}$	31	1	4 $\frac{1}{2}$	$\frac{7}{8}$	1 $\frac{3}{4}$	1 $\frac{1}{2}$	23 $\frac{3}{4}$	2 $\frac{1}{2}$
4 $\frac{1}{16}$	110	9 $\frac{3}{4}$	165	12 $\frac{3}{4}$	34 $\frac{1}{2}$	7 $\frac{3}{4}$	31	1	4 $\frac{1}{2}$	$\frac{7}{8}$	1 $\frac{3}{4}$	1 $\frac{1}{2}$	23 $\frac{3}{4}$	2 $\frac{1}{2}$
4 $\frac{1}{2}$	120	10 $\frac{1}{4}$	190	13 $\frac{1}{2}$	39	8 $\frac{1}{2}$	35	1 $\frac{1}{4}$	5	1	2	1 $\frac{5}{8}$	26 $\frac{3}{4}$	2 $\frac{3}{4}$
6	220	12	330	16	48	9 $\frac{3}{4}$	43	...	5 $\frac{1}{2}$	1 $\frac{1}{8}$	2 $\frac{1}{2}$	1 $\frac{3}{4}$	32 $\frac{1}{2}$	3
7	330	14 $\frac{3}{4}$	575	19 $\frac{1}{4}$	59	10 $\frac{3}{4}$	52	...	6	1 $\frac{1}{2}$	3	2 $\frac{1}{8}$	40	3 $\frac{1}{2}$
8	580	16 $\frac{1}{2}$	950	21 $\frac{3}{4}$	66	11 $\frac{3}{4}$	59	...	6 $\frac{1}{2}$	1 $\frac{3}{4}$	3 $\frac{1}{2}$	2 $\frac{1}{8}$	45	4
10	1200	19 $\frac{1}{2}$	2150	26 $\frac{1}{2}$	73 $\frac{1}{2}$	16	67 $\frac{1}{2}$	...	10	2	3	3	51	5

*4 Bolt Base regularly furnished. 2 Bolt Base can be supplied on special order.

†When bottom of base plate is planed the "N" dimension will be reduced approximately $\frac{1}{4}$ " on Type C and Special Duty Types and $\frac{1}{8}$ " on Double Interlock Type.

FAFNIR BALL BEARINGS WIDE INNER RING BEARINGS



Fafnir Wide Inner Ring Ball Bearing and Collar

The Wide Inner Ring Ball Bearing can be mounted without shouldering shafts and providing the usual fastening features, and has the anti-friction characteristics of the conventional single row bearing. In addition, however, the inner ring is extended laterally on both sides of the race proper, so as to provide exceptional shaft support. And on one end is an eccentric cam which engages with a similar cam recessed in the Locking Collar—a separate member which is locked to the shaft with a set-screw, thus furnishing a positive driving means.

Standard and Heavy

This type of bearing is produced in two series, Standard and Heavy, which correspond respectively to the proportions of the Light and Medium Series Single Row Bearings.

Rigid and Self-Aligning

The bearing also is made in both Rigid (A Type) and Self-Aligning (B Type) designs. The Self-Aligning Type is recommended where any possibility of shaft or housing misalignment exists. Compensation for deflection is normally provided by an alignment of the bearing as a unit in its housing—or, even with the Rigid Type, by alignment of the box proper within its housing, as in the case of the Double Pillow Block. In this way complete alignment may be obtained *without sacrifice of bearing capacity*.

Advantages

The outstanding advantage of the Wide Inner Ring Type lies in the fact that it is bored to inch rather than metric dimensions, and can be mounted with a sliding fit on a straight shaft, the collar locking it securely in position. Shaft shoulders, threading, lock nuts and adjustments either in mounting or in service are thus eliminated—all without substituting sleeves or adapters with their attendant disadvantages.

This bearing (with its collar) is available separately for mounting in the user's housings, and it is also available in a complete line of Fafnir Power Transmission Units, such as pillow blocks, hanger boxes, blower boxes, cartridges, etc. Whether employed individually or as a complete application unit, a remarkable degree of freedom from the usual mounting details always characterizes the use of this bearing.

Mounting Procedure

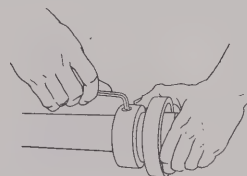
In mounting this bearing it is only necessary to slide the inner ring and collar on the shaft, engage the cams on collar and inner ring and turn down the collar set-screw. *No adjustments of any kind are necessary.*



Slip it over the Shaft



Engage and Turn the Collar



Set the Screw . . . and the Bearing is secured to the Shaft

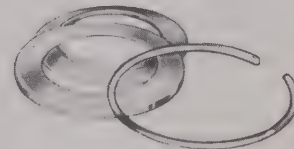
Standard Cap

The pressed-steel cap, which is made in two parts and acts as a dust seal, is supplied as a regular part of the Wide Inner Ring Bearing assembly, except in the case of the Mechani-Seal Type, and Plya-Seal Type, where the seal is integral with the bearing. The applications on the dimension pages following are shown with Fafnir Standard Caps for the most part.

Outside Member
Press Fit Into Housing



Inside Member
Press Fit On to Inner Ring



Standard Cap and Retaining Wire

Extra Dust Seals — The Dust-Seal Collar

For unusually dirty conditions, as in cement mills, grinding rooms, etc., an additional dust seal or guard is provided, which is also shown in the drawings. This seal is an extension of the Self-Locking Collar and encloses the end of the housing, which is specially machined to allow it to fit closely.



Extra Dust Seal

FAFNIR BALL BEARINGS DATA PERTAINING TO

Replacement Bearing Assembly — Wide Inner Ring Numbering System — Nomenclature

PILLOW BLOCKS	REPLACEMENT BEARING ASSEMBLY
LAK LAS LAKH LSA	G1000KLLB & Col.
RAK RAS RAKH RSA	G1000KRRB & Col.
LAKN LASN	1000KLLB & Col.
RAKN RASN	1000KRRB & Col.
LAO LSAO	GN000KLLB & Col.
RSAO	GN000KRRB & Col.
SA	MUB
SAD	MUBD (includes Dust Seal Collar)
SADD	MUBD (includes Dust Seal Collar)
SAO	MUOB
SAOD	MUOBD (includes Dust Seal Collar)
SAODD	MUOBD (includes Dust Seal Collar)
SAL	PSM1000S & Col.
SAOL	PSMN000S & Col.
DRN	(2) 1000KL & Col.
DSA	(2) MUA
DSADD	(2) MUAD (includes Dust Seal Collar)
DSAO	(2) MUOA
DSAODD	(2) MUOAD (includes Dust Seal Collar)
PB	RA000NPPB & Col.
RPB	RABR

FLANGE CYLINDRICAL UNITS	REPLACEMENT BEARING ASSEMBLY
LCJ LCJT LC	G1000KLLB & Col.
RCJ RCJT RC	G1000KRRB & Col.
LCJN LL FLANGETTE	1000KLLB & Col.
LLT FLANGETTE	1000KRRB & Col.
RCJN RR FLANGETTE	GN000KLLB
RRT FLANGETTE	MUB
LCJO	MUOB
C	MUOB
CO	RA100NPPB & Col.
RA FLANGETTE	
RAT FLANGETTE	
OTHER TYPES	
TAKE-UP UNIT LTU	G1000KLLB & Col.
RTU	G1000KRRB & Col.
TU	MUB
COUNTERSHAFT BOXES SCS	MUB
MOTOR CARTRIDGES	MUB
MC (Closed End)	MUOA
MC (Pulley End)	MUOAD (includes Dust Seal Collar)

MU and MUO Machine Units consist of 1 bearing, 1 assembly wire, 1 cap (2 steel plate shields).

MU

SM-1000 Series Brgs.

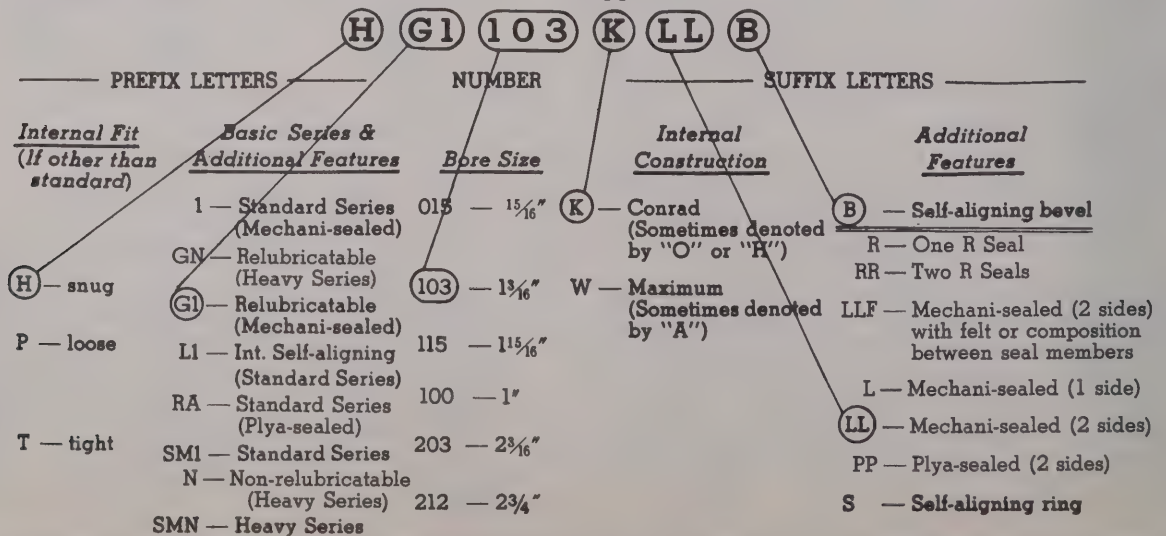
MUO

SMN-000 Series Brgs.

Bearing Numbering System and Nomenclature

The first three characters in the designation and stamping of Fafnir Wide Inner Ring Bearings indicate the series (Standard or Heavy), and the last three numbers the size. For example—with SM1107, "SM1" denotes Standard Series, while "107" indicates a shaft size of one inch and seven-sixteenths of an inch; with SMN015, "SMN" denotes Heavy Series, while "015" indicates a shaft size of no inches and fifteen-sixteenths of an inch. The letter following these six characters designates the internal construc-

tion, as "K" or "W." Should the letter "B" follow this in turn, it indicates a B Type Self-Aligning construction; the letter "S," the S Type Self-Aligning construction; the letter "L," the integral Mechani-Seal Type, with "LL" denoting double seals and a prefix letter "G" the optional relubricating feature. In the case of the L (Self-Aligning) Type, the letter "L" precedes the bearing number and supplants the "SM."



NEED HELP ON BEARINGS—CALL US

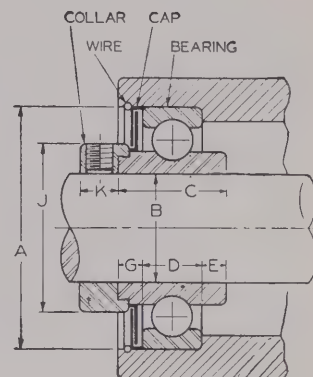
FAFNIR BALL BEARINGS WIDE INNER RING TYPE MACHINE UNITS WITH "SM" STANDARD SERIES BEARINGS

This general type of bearing is incorporated in all Fafnir Transmission Units, as well as being used for machine applications. The bearing dimensions given below apply on all applications using Standard Series Wide Inner Ring Bearings.

Bearings can be furnished in either the "A" Type (with straight outer ring), or in the "B" Type (with outer ring beveled).

When ordering, specify number on inner ring. Examples: SM1203K or SM1207KB ("B" appears on outer ring only). If complete unit, specify symbol with shaft size (as $1\frac{3}{16}$ " MU-A or $1\frac{3}{16}$ " MU-B).

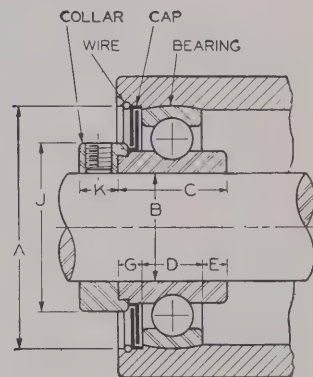
The Standard Series Machine Unit consists of one Standard Series bearing, one collar, one cap and one wire, designated by the symbol MU-A for the A Type Bearing, and MU-B for the B Type or Self-Aligning Bearing. (As for example: " $1\frac{3}{16}$ " MU-A.")



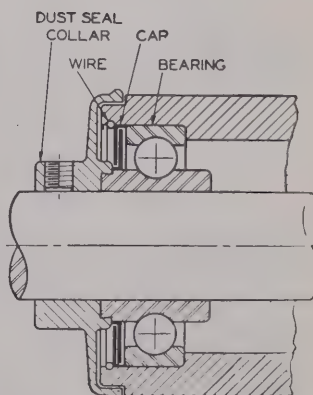
A Type

Machine Units MU-A, and MU-B are Equipped with "SM" Series Bearings

Inner Ring Number	B Shaft Dia.	A OUTSIDE DIA.		C Width	D OUTER RING WIDTH		J	K	Outer Ring No. *	Collar Number
		Mm	Inches		Mm	Inches				
SM-1008	$\frac{1}{2}$	40	1.5748	$1\frac{3}{32}$	12	.4724	$1\frac{3}{16}$	$\frac{3}{8}$	203	S-1008-K
SM-1009	$\frac{5}{16}$	40	1.5748	$1\frac{3}{32}$	12	.4724	$1\frac{3}{16}$	$\frac{3}{8}$	203	S-1009-K
SM-1010	$\frac{5}{8}$	40	1.5748	$1\frac{3}{32}$	12	.4724	$1\frac{3}{16}$	$\frac{3}{8}$	203	S-1010-K
SM-1011	$1\frac{1}{16}$	40	1.5748	$1\frac{3}{32}$	12	.4724	$1\frac{3}{16}$	$\frac{3}{8}$	203	S-1011-K
SM-1012	$\frac{3}{4}$	47	1.8504	$1\frac{1}{32}$	14	.5512	$1\frac{1}{2}$	$\frac{3}{8}$	204	S-1012-K
SM-1013	$1\frac{3}{16}$	52	2.0472	$1\frac{3}{8}$	15	.5906	$1\frac{1}{2}$	$\frac{3}{8}$	205	S-1013-K
SM-1014	$\frac{7}{8}$	52	2.0472	$1\frac{3}{8}$	15	.5906	$1\frac{1}{2}$	$\frac{3}{8}$	205	S-1014-K
SM-1015	$1\frac{5}{16}$	52	2.0472	$1\frac{3}{8}$	15	.5906	$1\frac{1}{2}$	$\frac{3}{8}$	205	S-1015-K
SM-1100	1	52	2.0472	$1\frac{3}{8}$	15	.5906	$1\frac{1}{2}$	$\frac{3}{8}$	205	S-1100-K
SM-1101	$1\frac{1}{8}$	62	2.4409	$1\frac{7}{16}$	16	.6299	$1\frac{3}{4}$	$1\frac{5}{16}$	206	S-1101-K
SM-1102	$1\frac{1}{4}$	62	2.4409	$1\frac{7}{16}$	16	.6299	$1\frac{3}{4}$	$1\frac{5}{16}$	206	S-1102-K
SM-1103	$1\frac{3}{8}$	62	2.4409	$1\frac{7}{16}$	16	.6299	$1\frac{3}{4}$	$1\frac{5}{16}$	206	S-1103-K
SM-1104	$1\frac{1}{2}$	72	2.8346	$1\frac{3}{4}$	17	.6693	$2\frac{3}{16}$	$1\frac{7}{16}$	207	S-1104-K
SM-1105	$1\frac{5}{8}$	72	2.8346	$1\frac{3}{4}$	17	.6693	$2\frac{3}{16}$	$1\frac{7}{16}$	207	S-1105-K
SM-1106	$1\frac{3}{4}$	72	2.8346	$1\frac{3}{4}$	17	.6693	$2\frac{3}{16}$	$1\frac{7}{16}$	207	S-1106-K
SM-1107	$1\frac{7}{8}$	72	2.8346	$1\frac{3}{4}$	17	.6693	$2\frac{3}{16}$	$1\frac{7}{16}$	207	S-1107-K
SM-1108-T	$1\frac{1}{2}$	80	3.1496	$1\frac{11}{16}$	18	.7087	$2\frac{3}{8}$	$1\frac{7}{16}$	208	S-1108-KT
SM-1109-T	$1\frac{3}{8}$	80	3.1496	$1\frac{11}{16}$	18	.7087	$2\frac{3}{8}$	$1\frac{7}{16}$	208	S-1109-KT
SM-1110	$1\frac{5}{8}$	85	3.3465	$1\frac{11}{16}$	19	.7480	$2\frac{1}{2}$	$1\frac{7}{16}$	209	S-1110-K
SM-1111	$1\frac{3}{4}$	85	3.3465	$1\frac{11}{16}$	19	.7480	$2\frac{1}{2}$	$1\frac{7}{16}$	209	S-1111-K
SM-1112	$1\frac{7}{8}$	85	3.3465	$1\frac{11}{16}$	19	.7480	$2\frac{1}{2}$	$1\frac{7}{16}$	209	S-1112-K
SM-1113	$1\frac{13}{16}$	90	3.5433	$1\frac{13}{16}$	20	.7874	$2\frac{3}{4}$	$1\frac{7}{16}$	210	S-1113-K
SM-1114	$1\frac{1}{2}$	90	3.5433	$1\frac{13}{16}$	20	.7874	$2\frac{3}{4}$	$1\frac{7}{16}$	210	S-1114-K
SM-1115	$1\frac{5}{8}$	90	3.5433	$1\frac{13}{16}$	20	.7874	$2\frac{3}{4}$	$1\frac{7}{16}$	210	S-1115-K
SM-1200	2	100	3.9370	$2\frac{3}{16}$	21	.8268	3	$\frac{5}{8}$	211	S-1200-K
SM-1201	$2\frac{1}{16}$	100	3.9370	$2\frac{3}{16}$	21	.8268	3	$\frac{5}{8}$	211	S-1201-K
SM-1202	$2\frac{1}{8}$	100	3.9370	$2\frac{3}{16}$	21	.8268	3	$\frac{5}{8}$	211	S-1202-K
SM-1203	$2\frac{1}{4}$	100	3.9370	$2\frac{3}{16}$	21	.8268	3	$\frac{5}{8}$	211	S-1203-K
SM-1204	$2\frac{3}{8}$	110	4.3307	$2\frac{7}{16}$	22	.8661	$3\frac{5}{16}$	$\frac{5}{8}$	212	S-1204-K
SM-1205	$2\frac{1}{2}$	110	4.3307	$2\frac{7}{16}$	22	.8661	$3\frac{5}{16}$	$\frac{5}{8}$	212	S-1205-K
SM-1206	$2\frac{3}{4}$	110	4.3307	$2\frac{7}{16}$	22	.8661	$3\frac{5}{16}$	$\frac{5}{8}$	212	S-1206-K
SM-1207	$2\frac{7}{8}$	110	4.3307	$2\frac{7}{16}$	22	.8661	$3\frac{5}{16}$	$\frac{5}{8}$	212	S-1207-K
SM-1208	$2\frac{1}{2}$	120	4.7244	$2\frac{11}{16}$	23	.9055	$3\frac{13}{16}$	$1\frac{11}{16}$	213	S-1208-K
SM-1211-T	$2\frac{3}{8}$	125	4.9213	$2\frac{11}{16}$	24	.9449	$3\frac{13}{16}$	$1\frac{11}{16}$	214	S-1211-KT
SM-1215	$2\frac{1}{2}$	130	5.1181	$2\frac{15}{16}$	25	.9843	4	$1\frac{11}{16}$	215	S-1215-K
SM-1303	$3\frac{1}{16}$	140	5.5118	$3\frac{1}{16}$	26	1.0236	$4\frac{3}{8}$	$\frac{3}{4}$	216	S-1303-K
SM-1307	$3\frac{1}{8}$	150	5.9055	$3\frac{7}{16}$	28	1.1024	$4\frac{7}{16}$	$\frac{3}{4}$	217	S-1307-K
SM-1311	$3\frac{1}{4}$	170	6.6929	$3\frac{11}{16}$	32	1.2598	5	$1\frac{13}{16}$	219	S-1311-K
SM-1315	$3\frac{3}{8}$	180	7.0866	$3\frac{15}{16}$	34	1.3386	$5\frac{1}{2}$	1	220	S-1315



B Type



Mounting with Dust-Seal Collar

For unusually dirty conditions an additional seal may be obtained by the use of the Dust-Seal Collar in place of the regular collar, as shown above.

*Suffix KB or WB appears with outer ring number on "B" Type (with outer ring beveled) bearings.

K or W only Suffix follows outer ring number in case of "A" Type (with straight outer ring) bearings.

FAFNIR BALL BEARINGS

WIDE INNER RING TYPE MACHINE UNITS

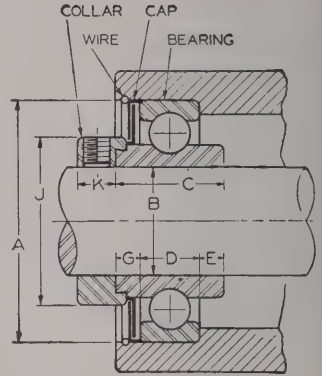
WITH "SMN" HEAVY SERIES BEARINGS

This general type of bearing is incorporated in all Fafnir Transmission Units, as well as being used for machine applications. The bearing dimensions given below apply on all applications using Heavy Series Wide Inner Ring Bearings.

Bearings can be furnished in either the "A" Type (with straight outer ring), or in the "B" Type (with outer ring beveled).

When ordering, specify number on inner ring. Examples: SMN115K or SMN211KB ("B" appears on outer ring only). If complete unit, specify symbol with shaft size as (MUOA 1 $\frac{3}{16}$ " or MUOB 1 $\frac{3}{16}$ ".)

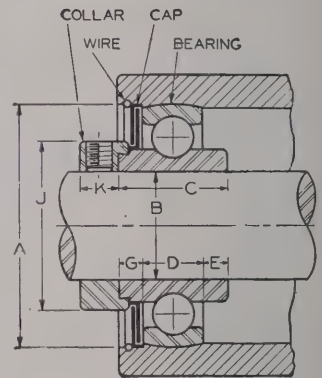
The Heavy Series Machine Unit consists of one Heavy Series bearing, one collar, one cap and one wire, designated by the symbol MUO-A for the A Type Bearing, and MUO-B for the B Type or Self-Aligning Bearing. (As for example "1 $\frac{3}{16}$ MUO-A.")



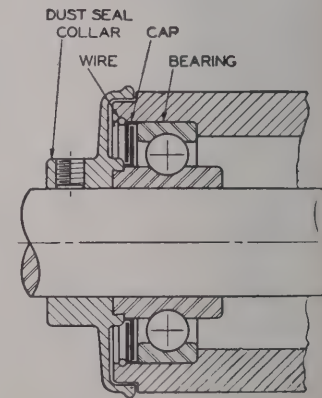
A Type

Machine Units MUO-A and MUO-B are equipped with "SMN" Series Bearings

Inner Ring Number	B Shaft Dia.	A OUTSIDE DIA.		C Width	D OUTER RING WIDTH		J	K	Outer Ring No. *	Collar Number
		Mm	Inches		Mm	Inches				
SMN-010	5/16	47	1.8504	1 11/32	14	.5512	1 3/8	15 1/32	303	SN-010-H
SMN-011	11/16	47	1.8504	1 11/32	14	.5512	1 3/8	15 1/32	303	SN-011-H
SMN-012	3/4	52	2.0472	1 3/8	15	.5906	1 7/8	15 1/32	304	SN-012-H
SMN-013	13/16	62	2.4409	1 3/8	17	.6693	1 11/16	15 1/32	305	SN-013-K
SMN-014	7/8	62	2.4409	1 3/8	17	.6693	1 11/16	15 1/32	305	SN-014-K
SMN-015	15/16	62	2.4409	1 3/8	17	.6693	1 11/16	15 1/32	305	SN-015-K
SMN-100	1	62	2.4409	1 3/8	17	.6693	1 11/16	15 1/32	305	SN-100-K
SMN-101	1 1/16	72	2.8346	1 7/8	19	.7480	1 15/16	17 1/32	306	SN-101-K
SMN-102	1 1/8	72	2.8346	1 7/8	19	.7480	1 15/16	17 1/32	306	SN-102-K
SMN-103	1 1/4	72	2.8346	1 7/8	19	.7480	1 15/16	17 1/32	306	SN-103-K
SMN-104	1 1/2	80	3.1496	1 3/4	21	.8268	2 1/8	17 1/32	307	SN-104-K
SMN-105	1 5/8	80	3.1496	1 3/4	21	.8268	2 1/8	17 1/32	307	SN-105-K
SMN-106	1 3/4	80	3.1496	1 3/4	21	.8268	2 1/8	17 1/32	307	SN-106-K
SMN-107	1 7/8	80	3.1496	1 3/4	21	.8268	2 1/8	17 1/32	307	SN-107-K
SMN-108	2	90	3.5433	1 5/8	23	.9055	2 3/8	17 1/32	308	SN-108-K
SMN-109	1 9/16	90	3.5433	1 5/8	23	.9055	2 3/8	17 1/32	308	SN-109-K
SMN-110	1 5/8	100	3.9370	1 11/16	25	.9843	2 5/8	17 1/32	309	SN-110-K
SMN-111	1 11/16	100	3.9370	1 11/16	25	.9843	2 5/8	17 1/32	309	SN-111-K
SMN-112	1 3/4	100	3.9370	1 11/16	25	.9843	2 5/8	17 1/32	309	SN-112-K
SMN-113	1 5/8	110	4.3307	1 15/16	27	1.0630	3	17 1/32	310	SN-113-K
SMN-114	1 7/8	110	4.3307	1 15/16	27	1.0630	3	17 1/32	310	SN-114-K
SMN-115	1 15/16	110	4.3307	1 15/16	27	1.0630	3	17 1/32	310	SN-115-K
SMN-200	2	120	4.7244	2 3/16	29	1.1417	3 1/4	17 1/32	311	SN-200-K
SMN-201	2 1/16	120	4.7244	2 3/16	29	1.1417	3 1/4	17 1/32	311	SN-201-K
SMN-202	2 1/8	120	4.7244	2 3/16	29	1.1417	3 1/4	17 1/32	311	SN-202-K
SMN-203	2 3/16	120	4.7244	2 3/16	29	1.1417	3 1/4	17 1/32	311	SN-203-K
SMN-204	2 1/4	130	5.1181	2 7/16	31	1.2205	3 3/2	17 1/32	312	SN-204-K
SMN-205	2 3/8	130	5.1181	2 7/16	31	1.2205	3 3/2	17 1/32	312	SN-205-K
SMN-206	2 1/2	130	5.1181	2 7/16	31	1.2205	3 3/2	17 1/32	312	SN-206-K
SMN-207	2 3/4	130	5.1181	2 7/16	31	1.2205	3 3/2	17 1/32	312	SN-207-K
SMN-208	2 1/2	140	5.5118	2 9/16	33	1.2992	3 13/16	17 1/32	313	SN-208-K
SMN-211	2 11/16	150	5.9055	2 11/16	35	1.3780	4	17 1/32	314	SN-211-K
SMN-215	2 3/4	160	6.2992	2 15/16	37	1.4567	4 1/2	1	315	SN-215-K
SMN-303	3 1/8	170	6.6929	3 1/8	39	1.5354	4 11/16	1	316	SN-303-K
SMN-304	3 1/4	180	7.0866	3 5/8	41	1.6142	5	1	317	SN-304-K
SMN-307	3 7/8	190	7.4803	3 7/8	43	1.6929	5 1/4	1 1/8	318	SN-307-K
SMO-311	3 11/16	200	7.8740	3 11/16	45	1.7717	5 3/2	1 1/8	319	SO-311-K
SMN-315	3 1/2	215	8.4646	3 15/16	47	1.8504	5 3/4	1 1/8	320	SN-315-K
SMN-403	4 1/8	225	8.8583	4 1/8	49	1.9291	6 1/16	1 1/8	321	SN-403-K
SMN-407	4 3/8	240	9.4488	4 3/8	50	1.9685	6 3/8	1 1/8	322	SN-407-K
SMN-415	4 15/16	280	11.0236	4 9/16	59	2.3228	8 1/8	1 3/8	326	SN-415-K



B Type



Mounting with Dust-Seal Collar

For unusually dirty conditions an additional seal may be obtained by the use of the Dust-Seal Collar in place of the regular collar, as shown above.

*Suffix KB or WB appears with outer ring number on "B" Type (with outer ring beveled) bearings.

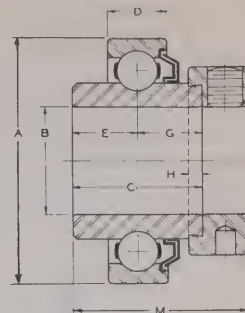
K or W only suffix follows outer ring number in case of "A" Type (with straight outer ring) bearings.

FAFNIR WIDE-INNER MECHANI-SEAL BEARINGS

A positive MECHANICAL Seal—integral with the bearing. External Rotating Slinger for dirt exclusion. Inner trap seal for grease retention. Close but definite clearances—no rubbing contact.

Suffix B denotes self-aligning type which has a spherical outside diameter for mounting in a housing with a corresponding spherical seat.

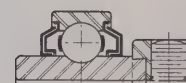
Prefix G designates bearings with hole in outer race for relubrication.



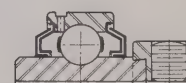
KL Type
Single Seal



KLB Type
Single Seal



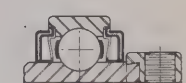
KLL Type
Double Seal



G-KLL Type
Double Seal



G-KLLB Type
Double Seal



N-KLL Type
Double Seal
Non-Relubricatable



GN-KLLB Type
Double Seal

Bearing Number* Shown on Seal			B Bore Inches	A Outside Diameter		C Inner Ring Width Inches	D Outer Ring Width		Basic Outer Ring Size	M
				Mm	Inches		Mm	Inches		
1008KL	1008KLL (KLLB)		1/2	40	1.5748	1 1/2	12	.4724	203	1 15/32
1010KL	1010KLL (KLLB)		5/8	40	1.5748	1 1/2	12	.4724	203	1 15/32
1011KL	1011KLL (KLLB)		11/16	40	1.5748	1 1/2	12	.4724	203	1 15/32
1012KL	1012KLL (KLLB)		3/4	47	1.8504	1 11/32	14	.5512	204	1 23/32
1014KL	1014KLL (KLLB)		7/8	52	2.0472	1 3/8	15	.5906	205	1 3/4
1015KL	1015KLL (KLLB)		15/16	52	2.0472	1 3/8	15	.5906	205	1 3/4
1100KL (KLB)	1100KLL (KLLB)		1	52	2.0472	1 3/8	15	.5906	205	1 3/4
1102KL	1102KLL (KLLB)		1 1/8	62	2.4409	1 7/8	16	.6299	206	1 29/32
1103KL (KLB)	1103KLL (KLLB)		1 1/8	62	2.4409	1 7/8	16	.6299	206	1 29/32
1103KL3	1103KLL3 (KLLB3)		1 1/4	62	2.4409	1 7/8	16	.6299	206	1 29/32
1104KL	1104KLL (KLLB)		1 1/4	72	2.8346	1 31/64	17	.6693	207	2 1/64
	1105KLL (KLLB)		1 1/4	72	2.8346	1 31/64	17	.6693	207	2 1/64
1106KL	1106KLL (KLLB)		1 1/2	72	2.8346	1 31/64	17	.6693	207	2 1/64
1107KL (KLB)	1107KLL (KLLB)		1 1/2	80	3.1496	1 11/16	18	.7087	208	2 1/8
1108KL (KLB)	1108KLL (KLLB)		1 1/2	80	3.1496	1 11/16	18	.7087	208	2 1/8
	1109KLL (KLLB)		1 3/8	85	3.3465	1 11/16	19	.7480	209	2 1/8
1110KL	1110KLL (KLLB)		1 3/8	85	3.3465	1 11/16	19	.7480	209	2 1/8
1111KL	1111KLL (KLLB)		1 3/8	85	3.3465	1 11/16	19	.7480	209	2 1/8
1112KL (KLB)	1112KLL (KLLB)		1 3/4	90	3.5433	1 15/16	20	.7874	210	2 15/32
1114KL	1114KLL (KLLB)		1 3/4	90	3.5433	1 15/16	20	.7874	210	2 15/32
1115KL (KLB)	1115KLL (KLLB)		1 5/8	100	3.9370	2 1/8	21	.8268	211	2 13/16
1200KL (KLB)	1200KLLB		2	100	3.9370	2 1/8	21	.8268	211	2 13/16
	1202KLL (KLLB)		2 1/8	100	3.9370	2 1/8	21	.8268	211	2 13/16
1203KL	1203KLL (KLLB)		2 1/8	100	3.9370	2 1/8	21	.8268	211	2 13/16
1207KL	1207KLL (KLLB)		2 1/4	110	4.3307	2 1/8	22	.8661	212	3 1/16
	1215KLL		2 15/16	130	5.1181	2 15/16	25	.9843	215	3 5/8

Bearing Number* Shown on Seal		B Bore Inches	A Outside Diameter		C Inner Ring Width Inches	D Outer Ring Width		Basic Outer Ring Size	M
			Mm	Inches		Mm	Inches		
	G1008KLLB	1/2	40	1.5748	1 1/2	12	.4734	G203	1 15/32
	G1009KLLB	5/8	40	1.5748	1 1/2	12	.4724	G203	1 15/32
G1010KLL	G1010KLLB	5/8	40	1.5748	1 1/2	12	.4724	G203	1 15/32
G1011KLL	G1011KLLB	11/16	40	1.5748	1 1/2	12	.4724	G203	1 15/32
G1012KLL	G1012KLLB	3/4	47	1.8504	1 11/32	14	.5512	G204	1 23/32
	G1013KLLB	7/8	52	2.0472	1 3/8	15	.5906	G205	1 3/4
G1014KLL	G1014KLLB	15/16	52	2.0472	1 3/8	15	.5906	G205	1 3/4
G1015KLL	G1015KLLB	1	52	2.0472	1 3/8	15	.5906	G205	1 3/4
G1100KLL	G1100KLLB	1 1/8	62	2.4409	1 7/8	16	.6299	G206	1 29/32
G1101KLL	G1101KLLB	1 1/8	62	2.4409	1 7/8	16	.6299	G206	1 29/32
G1102KLL	G1102KLLB	1 1/8	62	2.4409	1 7/8	16	.6299	G206	1 29/32
G1103KLL	G1103KLLB	1 1/4	62	2.4409	1 7/8	16	.6299	G206	1 29/32
	G1104KLLB	1 1/4	72	2.8346	1 31/64	19	.7480	G207	2 1/64
G1106KLL	G1106KLLB	1 1/2	72	2.8346	1 31/64	19	.7480	G207	2 1/64
G1107KLL	G1107KLLB	1 1/2	72	2.8346	1 31/64	19	.7480	G207	2 1/64
G1108KLL	G1108KLLB	1 3/8	80	3.1496	1 11/16	21	.8268	G208	2 1/8
G1109KLL	G1109KLLB	1 3/8	80	3.1496	1 11/16	21	.8268	G208	2 1/8
G1110KLL	G1110KLLB	1 3/8	85	3.3465	1 11/16	22	.8661	G209	2 1/8
G1111KLL	G1111KLLB	1 3/8	85	3.3465	1 11/16	22	.8661	G209	2 1/8
G1112KLL	G1112KLLB	1 3/4	90	3.5433	1 15/16	23	.9055	G210	2 15/32
	G1113KLLB	1 3/4	90	3.5433	1 15/16	23	.9055	G210	2 15/32
G1115KLL	G1115KLLB	1 5/8	100	3.9370	2 1/8	25	.9843	G211	2 13/16
G1200KLL	G1200KLLB	2	100	3.9370	2 1/8	25	.9843	G211	2 13/16
	G1201KLLB	2 1/8	100	3.9370	2 1/8	25	.9843	G211	2 13/16
G1203KLL	G1203KLLB	2 1/8	100	3.9370	2 1/8	25	.9843	G211	2 13/16
G1204KLL	G1204KLLB	2 1/4	110	4.3307	2 1/8	27	1.0630	G212	3 1/16
	G1205KLLB	2 1/4	110	4.3307	2 1/8	27	1.0630	G212	3 1/16
G1206KLL	G1206KLLB	2 3/8	110	4.3307	2 1/8	27	1.0630	G212	3 1/16
	G1207KLLB	2 1/2	110	4.3307	2 1/8	27	1.0630	G212	3 1/16
	G1215KLLB	2 15/16	130	5.1181	2 15/16	29	1.1417	G215	3 5/8

HEAVY SERIES

Bearing Number*		B Bore Inches	A Outside Diameter		C Inner Ring Width Inches	D Outer Ring Width				Basic Outer Ring Size	M
			Mm	Inches		N-KLLB		GN-KLLB			
						Mm	Inches	Mm	Inches		
N-KLLB	GN-KLLB										
N107KLLB	GN103KLLB	1 ¹³ / ₁₆	72	2.8346	1 ¹⁷ / ₁₆	..	..	20	.7874	306	1 ³¹ / ₃₂
	GN107KLLB	1 ¹³ / ₁₆	80	3.1496	1 ¹³ / ₈	21	.8268	22	.8661	307	2 ¹ / ₃₂
	GN108KLLB	1 ¹³ / ₈	90	3.5433	1 ⁵ / ₈	..	..	25	.9843	308	2 ¹ / ₄
N111KLLB	GN111KLLB	1 ¹¹ / ₁₆	100	3.9370	1 ¹¹ / ₁₆	25	.9843	27	1.0630	309	2 ¹ / ₈
N115KLLB	GN115KLLB	1 ¹⁵ / ₁₆	110	4.3307	1 ¹⁵ / ₁₆	27	1.0630	29	1.1417	310	2 ⁵ / ₈
N203KLLB	GN203KLLB	2 ³ / ₈	120	4.7244	2 ³ / ₈	29	1.1417	31	1.2205	311	2 ³ / ₄
N207KLLB	GN207KLLB	2 ⁷ / ₈	130	5.1181	2 ⁷ / ₈	31	1.2205	33	1.2992	312	3 ¹ / ₈
	GN211KLLB	2 ¹¹ / ₁₆	150	5.9055	2 ¹¹ / ₁₆	..	..	37	1.4567	314	3 ¹ / ₂
	GN215HLLB	2 ¹⁵ / ₁₆	160	6.2992	2 ¹⁵ / ₁₆	..	..	39	1.5354	315	3 ¹⁵ / ₁₆

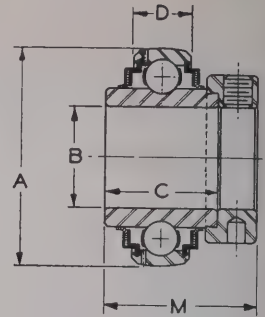
These bearings, except N107KLL and GN107KLLB, are available with felt inserts in seals. Add suffix letter "F" to complete bearing number, viz. GN103KLLBF.

*Complete bearing number appears on seal only. Intermediate sizes available on special order.

FAFNIR WIDE INNER RING BEARINGS

R, RR SHROUD-SEAL TYPE

RR Plya-Seals have been redesigned to provide greater protection for the rubber contact seal and to improve sealing performance. The result—the new Fafnir Shroud-Seal which provides positive protection from dust, dirt and abrasion.



G-KRRB Two Seals



Enlarged view of Shroud-Seal



KR One Seal



KRB One Seal



KRR Two Seals



KRRB Two Seals



G-KRR Two Seals

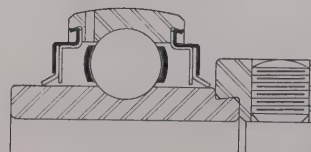
Bearing Numbers*		B Bore Inches	A Outside Diameter		C Inner Ring Width Inches	D Outer Ring Width		Basic Outer Ring Size	M Inches
One Seal	Two Seals		Mm	Inches		Mm	Inches		
1010KR	1008KRR (KRRB)	1 1/2	40	1.5748	1 3/32	12	.4724	203	1 15/32
	1010KRR (KRRB)	5/8	40	1.5748	1 3/32	12	.4724	203	1 15/32
	1011KRR (KRRB)	11/16	40	1.5748	1 3/32	12	.4724	203	1 15/32
1012KR (KRB)	1012KRR (KRRB)	3/4	47	1.8504	1 11/32	14	.5512	204	1 25/32
	1013KRR	13/16	52	2.0472	1 3/8	15	.5906	205	1 3/4
	1014KRR (KRRB)	7/8	52	2.0472	1 3/8	15	.5906	205	1 3/4
1015KR	1015KRR (KRRB)	15/16	52	2.0472	1 3/8	15	.5906	205	1 3/4
1100KR	1100KRR (KRRB)	1	52	2.0472	1 3/8	15	.5906	205	1 3/4
	1101KRRB	1 1/16	62	2.4409	1 7/16	16	.6299	206	1 39/32
1102KR	1102KRR (KRRB)	1 1/8	62	2.4409	1 7/16	16	.6299	206	1 39/32
1103KR	1103KRR (KRRB)	1 1/4	62	2.4409	1 7/16	16	.6299	206	1 39/32
	1103KRR3 (KRRB3)	1 1/4	62	2.4409	1 7/16	16	.6299	206	1 39/32
1104KR	1104KRR (KRRB)	1 1/2	72	2.8346	1 31/64	17	.6693	207	2 1/64
	1105KRR (KRRB)	1 5/8	72	2.8346	1 31/64	17	.6693	207	2 1/64
	1106KRR (KRRB)	1 3/4	72	2.8346	1 31/64	17	.6693	207	2 1/64
1107KR	1107KRR (KRRB)	1 7/8	72	2.8346	1 31/64	17	.6693	207	2 1/64
1108KR	1108KRR (KRRB)	1 1/2	80	3.1496	1 11/16	18	.7087	208	2 7/32
	1109KRRB	1 5/8	80	3.1496	1 11/16	18	.7087	208	2 7/32
	1110KRR (KRRB)	1 3/4	85	3.3465	1 11/16	19	.7480	209	2 7/16
1111KR	1111KRR (KRRB)	1 11/16	85	3.3465	1 11/16	19	.7480	209	2 7/16
1112KR	1112KRR (KRRB)	1 3/4	85	3.3465	1 11/16	19	.7480	209	2 7/16
	1114KRR (KRRB)	1 7/8	90	3.5433	1 15/16	20	.7874	210	2 15/32
1115KR (KRB)	1115KRR (KRRB)	1 15/16	90	3.5433	1 15/16	20	.7874	210	2 15/32
1200KR	1200KRR (KRRB)	2	100	3.9370	2 5/16	21	.8268	211	2 15/16
	1202KRR (KRRB)	2 1/8	100	3.9370	2 5/16	21	.8268	211	2 15/16
1203KR	1203KRR (KRRB)	2 1/16	100	3.9370	2 5/16	21	.8268	211	2 15/16
		2 1/8	110	4.3307	2 7/16	22	.8661	212	3 1/8
	1215KRR	2 15/16	130	5.1181	2 15/16	25	.9843	215	3 5/8

	G1008KRRB	1 1/2	40	1.5748	1 3/32	12	.4724	G203	1 15/32
	G1009KRRB	5/8	40	1.5748	1 3/32	12	.4724	G203	1 15/32
G1010KRR	G1010KRRB	11/16	40	1.5748	1 3/32	12	.4724	G203	1 15/32
G1011KRR	G1011KRRB	3/4	47	1.8504	1 11/32	14	.5512	G204	1 25/32
G1012KRR	G1012KRRB	13/16	52	2.0472	1 3/8	15	.5906	G205	1 3/4
G1013KRR	G1013KRRB	7/8	52	2.0472	1 3/8	15	.5906	G205	1 3/4
G1014KRR	G1014KRRB	15/16	52	2.0472	1 3/8	15	.5906	G205	1 3/4
G1015KRR	G1015KRRB	1	52	2.0472	1 3/8	15	.5906	G205	1 3/4
G1100KRR	G1100KRRB	1 1/16	62	2.4409	1 7/16	16	.6299	G206	1 39/32
G1101KRR	G1101KRRB	1 1/8	62	2.4409	1 7/16	16	.6299	G206	1 39/32
G1102KRR	G1102KRRB	1 1/4	62	2.4409	1 7/16	16	.6299	G206	1 39/32
G1103KRR	G1103KRRB	1 1/2	72	2.8346	1 31/64	17	.6693	G207	2 1/64
G1104KRR	G1104KRRB	1 5/8	72	2.8346	1 31/64	17	.6693	G207	2 1/64
G1105KRR	G1105KRRB	1 3/4	72	2.8346	1 31/64	17	.6693	G207	2 1/64
G1106KRR	G1106KRRB	1 7/8	72	2.8346	1 31/64	17	.6693	G207	2 1/64
G1107KRR	G1107KRRB	1 1/2	80	3.1496	1 11/16	18	.7087	G208	2 7/32
G1108KRR	G1108KRRB	1 5/8	80	3.1496	1 11/16	18	.7087	G208	2 7/32
G1110KRR	G1110KRRB	1 3/4	85	3.3465	1 11/16	19	.7480	G209	2 7/16
G1111KRR	G1111KRRB	1 11/16	85	3.3465	1 11/16	19	.7480	G209	2 7/16
G1112KRR	G1112KRRB	1 3/4	85	3.3465	1 11/16	19	.7480	G209	2 7/16
G1113KRR	G1113KRRB	1 7/8	90	3.5433	1 15/16	20	.7874	G210	2 15/32
G1114KRR	G1114KRRB	1 15/16	90	3.5433	1 15/16	20	.7874	G210	2 15/32
G1115KRR	G1115KRRB	2	100	3.9370	2 5/16	21	.8268	G211	2 15/16
G1200KRR	G1200KRRB	2 1/8	100	3.9370	2 5/16	21	.8268	G211	2 15/16
G1201KRR	G1201KRRB	2 1/16	100	3.9370	2 5/16	21	.8268	G211	2 15/16
G1202KRR	G1202KRRB	2 3/8	110	4.3307	2 7/16	22	.8661	G212	3 1/8
G1203KRR	G1203KRRB	2 1/2	110	4.3307	2 7/16	22	.8661	G212	3 1/8
	G1204KRRB	2 1/4	110	4.3307	2 7/16	22	.8661	G212	3 1/8
	G1205KRRB	2 3/8	110	4.3307	2 7/16	22	.8661	G212	3 1/8
G1207KRR	G1207KRRB	2 7/8	125	4.9213	2 15/16	28	1.1024	G214	3 5/8
	G1210KRRB	2 15/16	125	4.9213	2 15/16	28	1.1024	G214	3 5/8
	G1211KRRB	2 15/16	130	5.1181	2 15/16	29	1.1417	G215	3 5/8

*Complete bearing number appears on seal only.

HEAVY GN-KRRB SERIES

Bearing Number Two Seals	B Bore Inches	A Outside Diameter		C Inner Ring Width Inches	D Outer Ring Width		Basic Outer Ring Size	M Inches
		Mm	Inches		Mm	Inches		
GN303KRRB	3 3/16	170	6.6929	3 3/16	41	1.6142	316	4 3/16
GN307KRRB	3 7/16	190	7.4803	3 7/16	45	1.7717	318	4 9/16
GN315KRRB	3 15/16	215	8.4646	3 15/16	49	1.9291	320	5 1/16



Enlarged view of seal detail

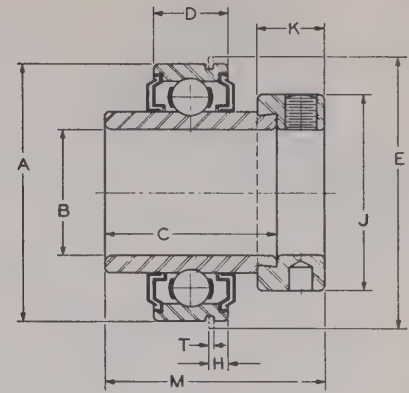
FAFNIR BALL BEARINGS

WIDE INNER RING

MECHANI-SEAL TYPE WITH SNAP RING

KLLG SERIES

The KLLG wide inner ring ball bearing is exactly the same as the KLL series except for snap ring (wireloc) in outer ring. A wireloc mounting provides a convenient method of positively locating the bearing axially. This series is non-relubricatable.



KLLG
Two Seals

Bearing Number*	Collar Number	Basic Outer Ring Size	B Bore Inches	A Outside Diameter		C Inner Ring Width Inches	D Outer Ring Width		J Inches	K Inches	M Inches	Snap Wire Dimensions		
				Mm	Inches		Mm	Inches				O.D. E Inches	Thick. T Inches	Offset H Inches
1012KLLG	S1012K	204	3/4	47	1.8504	1 1/32	14	.5512	1 5/16	17/32	1 23/32	2 1/16	.042	.136
1014KLLG	S1014K	205	7/8	52	2.0472	1 3/8	15	.5906	1 1/2	17/32	1 3/4	2 17/64	.042	.136
1015KLLG	S1015K	205	15/16	52	2.0472	1 3/8	15	.5906	1 1/2	17/32	1 3/4	2 17/64	.042	.136
1100KLLG	S1100K	205	1	52	2.0472	1 3/8	15	.5906	1 1/2	17/32	1 3/4	2 17/64	.042	.136
1101KLLG	S1101K	206	1 1/16	62	2.4409	1 7/16	16	.6299	1 3/4	5/8	1 29/32	2 21/32	.065	.190
1102KLLG	S1102K	206	1 1/8	62	2.4409	1 7/16	16	.6299	1 3/4	5/8	1 29/32	2 21/32	.065	.190
1103KLLG	S1103K	206	1 3/16	62	2.4409	1 7/16	16	.6299	1 3/4	5/8	1 29/32	2 21/32	.065	.190
1104KLLG	S1104K	207	1 1/4	72	2.8346	1 31/64	17	.6693	2 3/16	11/16	2 1/64	3 5/64	.065	.190
1106KLLG	S1106K	207	1 3/8	72	2.8346	1 31/64	17	.6693	2 3/16	11/16	2 1/64	3 5/64	.065	.190
1107KLLG	S1107K	207	1 7/16	72	2.8346	1 31/64	17	.6693	2 3/16	11/16	2 1/64	3 5/64	.065	.190
1108KLLG	S1108KT	208	1 1/2	80	3.1496	1 11/16	18	.7087	2 3/8	23/32	2 7/32	3 13/32	.065	.190
1110KLLG	S1110K	209	1 5/8	85	3.3465	1 11/16	19	.7480	2 1/2	23/32	2 7/32	3 19/32	.065	.190
1111KLLG	S1111K	209	1 11/16	85	3.3465	1 11/16	19	.7480	2 1/2	23/32	2 7/32	3 19/32	.065	.190
1112KLLG	S1112K	209	1 3/4	85	3.3465	1 11/16	19	.7480	2 1/2	23/32	2 7/32	3 19/32	.065	.190
1115KLLG	S1115K	210	1 15/16	90	3.5433	1 15/16	20	.7874	2 3/4	23/32	2 15/32	3 51/64	.095	.220

*Complete bearing number appears on seals only.

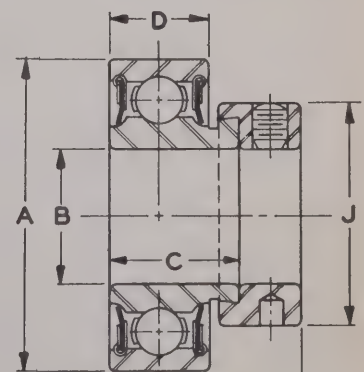
RA-PP and RA-PPB SHROUD-SEAL

RA Plya-Seals have been redesigned to provide greater protection for the rubber contact seal and to improve sealing performance. The result—the new Fafnir Shroud-Seal which provides positive protection from dust, dirt and abrasion.



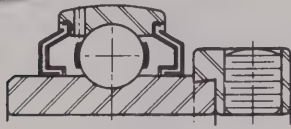
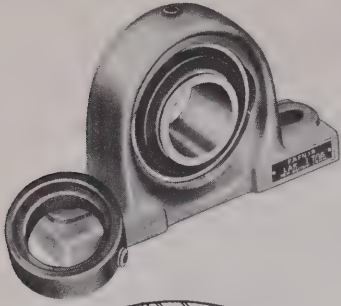
Enlarged view
of
Shroud-Seal

Bearing Number	Collar Number	Basic Outer Ring Size	B Bore Inches	A Outside Diameter		C Inner Ring Width Inches	D Outer Ring Width		J	M
				Mm	Inches		Mm	Inches		
RA008PP	RA008PPB	S1008K	203	1/2	40	1.5748	.7500	13	.5118	1 1/8
RA010PP	RA010PPB	S1010K	203	5/8	40	1.5748	.7500	13	.5118	1 1/8
RA012PP	RA012PPB	S1012K	204	3/4	47	1.8504	.8437	15	.5906	1 1/8
RA012PP2	RS012K	9104	3/4	42	1.6535	.7230	12	.4724	1 1/8	1 1/8
RA014PP	RA014PPB	S1014K	205	7/8	52	2.0472	.8437	15	.5906	1 1/2
RA015PP	RA015PPB	S1015K	205	15/16	52	2.0472	.8437	15	.5906	1 1/2
RA100PP	RA100PPB	S1100K	205	1	52	2.0472	.8437	15	.5906	1 1/2
RA101PP	RA101PPB	S1101K	206	1 1/16	62	2.4409	.9375	18	.7087	1 1/2
RA102PP	RA102PPB	S1102K	206	1 1/8	62	2.4409	.9375	18	.7087	1 1/2
RA103PP	RA103PPB	S1103K	206	1 1/16	62	2.4409	.9375	18	.7087	1 1/2
RA103PP2	RA103PPB2	S1103K3	206	1 1/4	62	2.4409	.9375	18	.7087	1 1/2
RA104PP	RA104PPB	S1104K	207	1 1/4	72	2.8346	1.000	19	.7480	2 1/8
RA105PP	RA105PPB	S1105K	207	1 1/16	72	2.8346	1.000	19	.7480	2 1/8
RA106PP	RA106PPB	S1106K	207	1 3/8	72	2.8346	1.000	19	.7480	2 1/8
RA107PP	RA107PPB	S1107K	207	1 7/16	72	2.8346	1.000	19	.7480	2 1/8
RA108PP	RA108PPB	S1108KT	208	1 1/2	80	3.1496	1.1875	22	.8661	2 3/8
RA109PP	RA109PPB	S1109KT	208	1 5/8	80	3.1496	1.1875	22	.8661	2 3/8
RA112PP	RA112PPB	S1112K	209	1 3/4	85	3.3465	1.1875	22	.8661	2 1/2
RA115PP	RA115PPB	S1115K	210	1 15/16	90	3.5433	1.1875	22	.8661	2 3/4

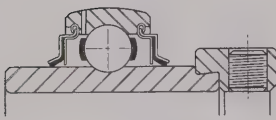


RA-PP Type

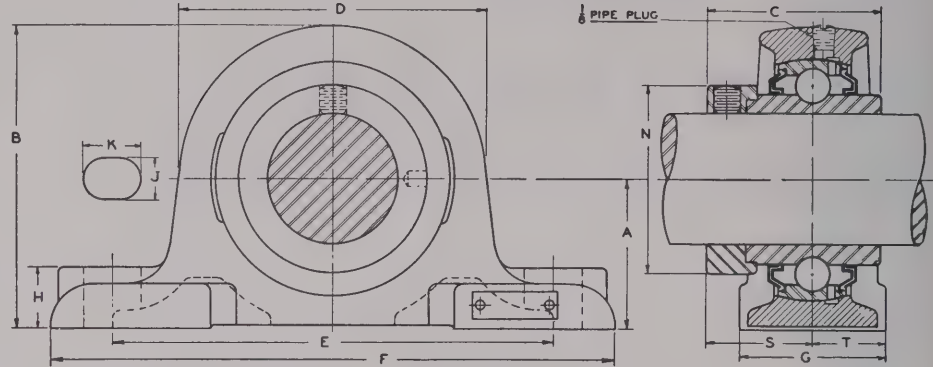
**FAFNIR BALL BEARINGS
SINGLE PILLOW BLOCKS
LIGHT SERIES
LAK and RAK Type**



G-KLLB Type
Mechani-seal type



G-KRRB
Plya-seal type



When ordering specify shaft size and type.

Example: LAK-1-3/16 for Mechani-seal bearing equipped.

RAK-1-3/16 for Plya-seal bearing equipped.

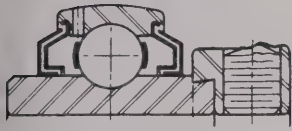
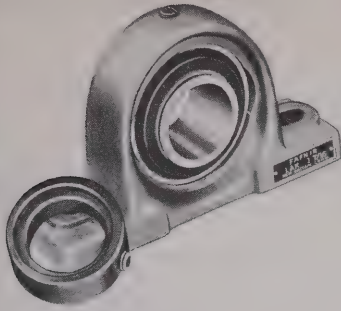
Shaft Diameter Inches	A	B	C	D	E	F	G	H	J	K	N	S	T	Bolt Size
1/2	1 1/16	2 1/8	1 15/32	2 1/8	3 1/2	4 3/4	1 3/8	1 1/2	7/16	9/16	1 3/16	59/64	1 1/16	3/8
9/16	1 1/16	2 1/8	1 15/32	2 1/8	3 1/2	4 3/4	1 3/8	1 1/2	7/16	9/16	1 3/16	59/64	1 1/16	3/8
5/8	1 1/16	2 1/8	1 15/32	2 1/8	3 1/2	4 3/4	1 3/8	1 1/2	7/16	9/16	1 3/16	59/64	1 1/16	3/8
11/16	1 1/16	2 1/8	1 15/32	2 1/8	3 1/2	4 3/4	1 3/8	1 1/2	7/16	9/16	1 3/16	59/64	1 1/16	3/8
3/4	1 1/4	2 1/2	1 23/32	2 1/2	3 7/8	5 1/4	1 5/8	9/16	7/16	9/16	1 5/16	1 3/64	1 3/16	3/8
13/16	1 5/16	2 11/16	1 3/4	2 3/4	4 1/8	5 1/2	1 3/4	5/8	7/16	9/16	1 9/16	1 1/16	7/8	3/8
7/8	1 9/16	2 11/16	1 3/4	2 3/4	4 1/8	5 1/2	1 3/4	5/8	7/16	9/16	1 9/16	1 1/16	7/8	3/8
15/16	1 5/16	2 11/16	1 3/4	2 3/4	4 1/8	5 1/2	1 3/4	5/8	7/16	9/16	1 9/16	1 1/16	7/8	3/8
1	1 5/16	2 11/16	1 3/4	2 3/4	4 1/8	5 1/2	1 3/4	5/8	7/16	9/16	1 9/16	1 1/16	7/8	3/8
1 1/16	1 9/16	3 5/32	1 29/32	3 3/16	4 3/4	6 5/16	1 7/8	1 1/16	9/16	3/4	1 13/16	1 3/16	1 5/16	1/2
1 1/8	1 9/16	3 5/32	1 29/32	3 3/16	4 3/4	6 5/16	1 7/8	1 1/16	9/16	3/4	1 13/16	1 3/16	1 5/16	1/2
1 3/16	1 9/16	3 5/32	1 29/32	3 3/16	4 3/4	6 5/16	1 7/8	1 1/16	9/16	3/4	1 13/16	1 3/16	1 5/16	1/2
1 1/4	1 13/16	3 5/8	2 1/64	3 5/8	5	6 9/16	1 7/8	3/4	9/16	3/4	2 3/16	1 9/32	1 5/16	1/2
1 5/16	1 13/16	3 5/8	2 1/64	3 5/8	5	6 9/16	1 7/8	3/4	9/16	3/4	2 3/16	1 9/32	1 5/16	1/2
1 3/8	1 13/16	3 5/8	2 1/64	3 5/8	5	6 9/16	1 7/8	3/4	9/16	3/4	2 3/16	1 9/32	1 5/16	1/2
1 7/16	1 13/16	3 5/8	2 1/64	3 5/8	5	6 9/16	1 7/8	3/4	9/16	3/4	2 3/16	1 9/32	1 5/16	1/2
1 1/2	1 15/16	3 15/16	2 7/32	4	5 1/2	7 1/8	2 1/8	3/4	9/16	3/4	2 3/8	1 3/8	1 1/16	1/2
1 9/16	1 15/16	3 15/16	2 7/32	4	5 1/2	7 1/8	2 1/8	3/4	9/16	3/4	2 3/8	1 3/8	1 1/16	1/2
1 5/8	2 1/16	4 3/16	2 7/32	4 1/4	5 3/4	7 1/2	2 1/8	13/16	9/16	3/4	2 9/16	1 3/8	1 1/16	1/2
1 11/16	2 1/16	4 3/16	2 7/32	4 1/4	5 3/4	7 1/2	2 1/8	13/16	9/16	3/4	2 9/16	1 3/8	1 1/16	1/2
1 3/4	2 1/16	4 3/16	2 7/32	4 1/4	5 3/4	7 1/2	2 1/8	13/16	9/16	3/4	2 9/16	1 3/8	1 1/16	1/2
1 13/16	2 3/16	4 7/16	2 15/32	4 1/2	6 1/4	8	2 1/4	7/8	9/16	3/4	2 3/4	1 1/2	1 1/8	1/2
1 7/8	2 3/16	4 7/16	2 15/32	4 1/2	6 1/4	8	2 1/4	7/8	9/16	3/4	2 3/4	1 1/2	1 1/8	1/2
1 15/16	2 3/16	4 7/16	2 15/32	4 1/2	6 1/4	8	2 1/4	7/8	9/16	3/4	2 3/4	1 1/2	1 1/8	1/2
2	2 7/16	4 29/32	2 13/16	4 15/16	7 1/8	9 1/8	2 3/8	1	1 1/16	15/16	3 1/16	1 23/32	1 3/16	5/8
2 1/16	2 7/16	4 29/32	2 13/16	4 15/16	7 1/8	9 1/8	2 3/8	1	1 1/16	15/16	3 1/16	1 23/32	1 3/16	5/8
2 1/8	2 7/16	4 29/32	2 13/16	4 15/16	7 1/8	9 1/8	2 3/8	1	1 1/16	15/16	3 1/16	1 23/32	1 3/16	5/8
2 3/16	2 7/16	4 29/32	2 13/16	4 15/16	7 1/8	9 1/8	2 3/8	1	1 1/16	15/16	3 1/16	1 23/32	1 3/16	5/8
2 1/4	2 11/16	5 3/8	3 1/16	5 3/8	7 1/2	9 1/2	2 1/2	1 1/8	1 1/16	15/16	3 5/16	1 27/32	1 1/4	5/8
2 5/16	2 11/16	5 3/8	3 1/16	5 3/8	7 1/2	9 1/2	2 1/2	1 1/8	1 1/16	15/16	3 5/16	1 27/32	1 1/4	5/8
2 3/8	2 11/16	5 3/8	3 1/16	5 3/8	7 1/2	9 1/2	2 1/2	1 1/8	1 1/16	15/16	3 5/16	1 27/32	1 1/4	5/8
2 7/16	2 11/16	5 3/8	3 1/16	5 3/8	7 1/2	9 1/2	2 1/2	1 1/8	1 1/16	15/16	3 5/16	1 27/32	1 1/4	5/8
*2 11/16	3	6 1/16	3 3/8	6 1/8	8	10 1/2	2 7/8	1 5/16	1 3/16	1 3/8	3 13/16	2 1/32	1 7/16	3/4
2 15/16	3 5/16	6 17/32	3 5/8	6 7/16	9 1/2	12	3 1/4	1 1/2	7/8	1 1/4	4	2 5/32	1 5/8	3/4

Recommended shaft tolerances: 1/2"-2", nominal to -.0005"; 2 1/16"-2 7/16", nominal to -.0010".

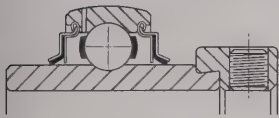
*Available as RAK 2 11/16 only.

NEED HELP ON BEARINGS—CALL US

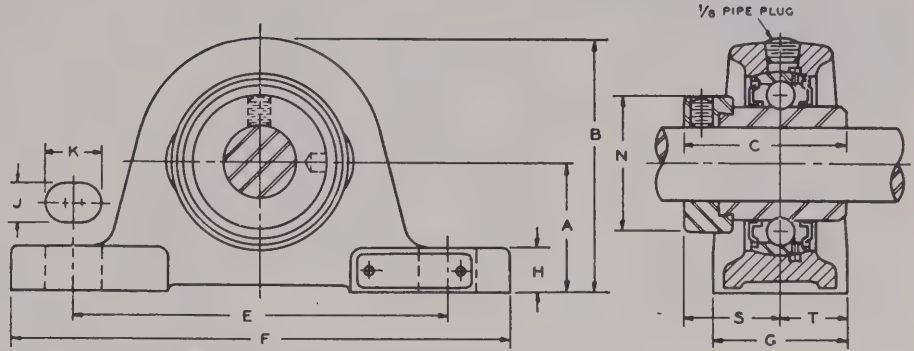
FAFNIR BALL BEARINGS SINGLE PILLOW BLOCKS LIGHT SERIES LAS AND RAS TYPE



G-KLLB
Mechani-seal type



G-KRRB
Plya-seal type



When ordering specify shaft size and type.
Example: LAS-1 3/16 for Mechani-seal bearing equipped.
RAS-1 3/16 for Plya-seal bearing equipped.

SHAFT DIAM. Inches	INCHES												BOLT SIZE Inches
	A	B	C	E	F	G	H	J	K	N	S	T	
1/2													
9/16	1 3/16	2 1/4	1 15/32	3 3/4	5	1 1/2	3/8	7/16	3/4	1 3/16	59/64	3/4	3/8
* 5/8													
1 1/16													
* 3/4	1 5/16	2 9/16	1 23/32	3 3/4	5	1 1/2	1/2	7/16	3/4	1 5/16	1 3/64	3/4	3/8
1 3/16													
* 7/8	1 7/16	2 13/16	1 3/4	4 1/8	5 1/2	1 1/2	1/2	7/16	5/8	1 1/2	1 1/16	3/4	3/8
* 1 5/16													
* 1													
1 1/16													
1 1/8	1 11/16	3 3/32	1 29/32	4 3/4	6 1/2	1 7/8	9/16	9/16	1 3/16	1 3/4	1 3/16	15/16	1/2
* 1 3/16													
1 1/4													
1 5/16	1 7/8	3 11/16	2 1/64	5	6 9/16	1 7/8	5/8	9/16	1 3/16	2 3/16	1 9/32	15/16	1/2
1 3/8													
* 1 7/16													
* 1 1/2													
1 9/16	1 15/16	3 15/16	2 7/32	5 3/8	7 1/4	2 1/8	1 1/16	9/16	1	2 3/8	1 3/8	1 1/16	1/2
1 5/8													
* 1 11/16	2 1/8	4 1/4	2 7/32	5 3/4	7 1/2	2 1/8	1 1/16	9/16	1 3/16	2 1/2	1 3/8	1 1/16	1/2
1 3/4													
1 13/16													
1 7/8	2 1/4	4 1/2	2 15/32	6 1/4	8 1/8	2 3/8	3/4	1 1/16	7/8	2 3/4	1 1/2	1 3/16	5/8
* 1 15/16													
2													
2 1/16	2 1/2	4 31/32	2 13/16	6 3/4	8 5/8	2 3/8	3/4	1 1/16	7/8	3	1 23/32	1 3/16	5/8
2 1/8													
* 2 3/16													
2 1/4													
2 5/16	2 3/4	5 1/2	3 1/16	7 1/4	9 1/2	2 3/4	7/8	1 1/16	1	3 5/16	1 27/32	1 3/8	5/8
2 3/8													
* 2 7/16													
2 15/16	3 1/4	6 15/32	3 5/8	8 1/2	10 5/8	2 3/4	1	7/8	1 1/4	4	2 5/32	1 3/8	3/4

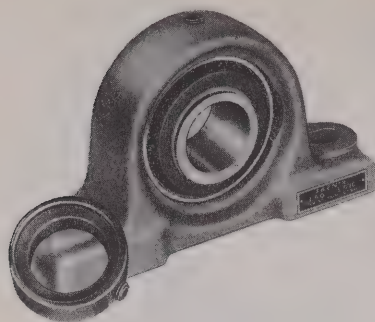
*Preferred sizes.

Recommended shaft tolerances: 1/2"-2", nominal to -.0005"; 2 1/16"-2 7/16", nominal to -.0010".

NEED HELP ON BEARINGS—CALL US

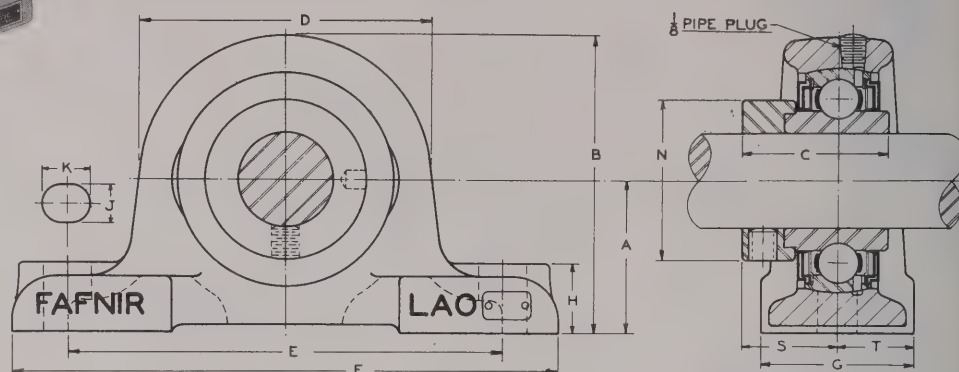
FAFNIR BALL BEARINGS

LAO TYPE—HEAVY SERIES PILLOW BLOCKS



A compact, economical heavy-duty ball bearing power transmission unit.

Single Row Wide Inner Ring Bearing (Self-aligning B Type) compensates for shaft misalignment and the integral Mechani-Seals keep lubrication in—dirt out.



Equipped with Mechani-Seal Bearing Type—GN-KLLB, see Page 217

When ordering, specify shaft size. Example: LAO 1 $\frac{1}{16}$ ''.

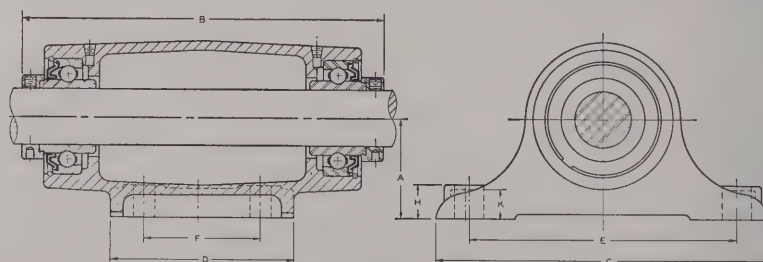
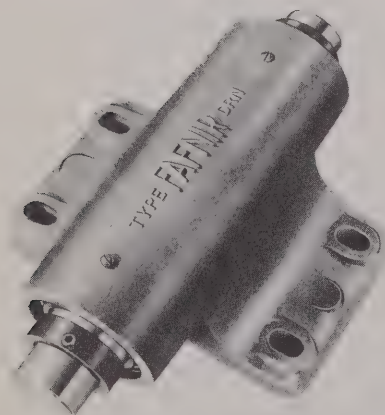
Shaft Diameter Inches	A	B	C	D	E	F	G	H	J	K	N	S	T	Bolt Size Inches
1 $\frac{3}{16}$	1 $\frac{7}{16}$	3 $\frac{11}{16}$	1 $\frac{31}{32}$	3 $\frac{9}{16}$	5 $\frac{3}{8}$	6 $\frac{13}{16}$	1 $\frac{15}{16}$	7 $\frac{5}{8}$	5 $\frac{5}{8}$	3 $\frac{3}{4}$	1 $\frac{15}{16}$	1 $\frac{9}{32}$	3 $\frac{1}{32}$	9 $\frac{1}{16}$
1 $\frac{7}{16}$	2 $\frac{1}{8}$	4 $\frac{3}{8}$	2 $\frac{1}{2}$	4	6	7 $\frac{9}{16}$	2 $\frac{1}{8}$	1 $\frac{15}{16}$	5 $\frac{5}{8}$	3 $\frac{3}{4}$	2 $\frac{3}{16}$	1 $\frac{1}{16}$	1 $\frac{1}{16}$	9 $\frac{1}{16}$
1 $\frac{1}{2}$	2 $\frac{3}{8}$	4 $\frac{5}{8}$	2 $\frac{3}{4}$	4 $\frac{1}{2}$	6 $\frac{3}{4}$	8 $\frac{1}{2}$	2 $\frac{3}{8}$	1 $\frac{1}{2}$	5 $\frac{3}{4}$	1	2 $\frac{1}{2}$	1 $\frac{1}{16}$	1 $\frac{1}{16}$	1 $\frac{1}{16}$
1 $\frac{11}{16}$	2 $\frac{5}{8}$	5 $\frac{1}{8}$	2 $\frac{11}{16}$	5	7 $\frac{1}{2}$	9 $\frac{1}{16}$	2 $\frac{5}{8}$	1 $\frac{3}{8}$	5 $\frac{3}{4}$	1	2 $\frac{3}{4}$	1 $\frac{1}{16}$	1 $\frac{1}{16}$	1 $\frac{1}{16}$
1 $\frac{15}{16}$	2 $\frac{13}{16}$	5 $\frac{5}{8}$	2 $\frac{15}{16}$	5 $\frac{1}{8}$	8 $\frac{1}{4}$	10 $\frac{1}{16}$	2 $\frac{7}{8}$	1 $\frac{5}{8}$	5 $\frac{3}{4}$	1	3	1 $\frac{1}{16}$	1 $\frac{1}{16}$	1 $\frac{1}{16}$
2 $\frac{1}{16}$	3 $\frac{1}{16}$	6 $\frac{1}{16}$	2 $\frac{9}{8}$	5 $\frac{15}{16}$	9	11 $\frac{15}{16}$	3 $\frac{1}{8}$	1 $\frac{7}{8}$	5 $\frac{3}{4}$	1 $\frac{1}{8}$	3 $\frac{1}{4}$	1 $\frac{1}{16}$	1 $\frac{1}{16}$	1 $\frac{1}{16}$
2 $\frac{1}{8}$	3 $\frac{1}{8}$	6 $\frac{1}{8}$	2 $\frac{3}{4}$	6 $\frac{1}{8}$	9 $\frac{3}{4}$	12 $\frac{1}{8}$	3 $\frac{1}{4}$	1 $\frac{1}{2}$	5 $\frac{3}{4}$	1 $\frac{1}{4}$	3 $\frac{1}{2}$	1 $\frac{1}{16}$	1 $\frac{1}{16}$	1 $\frac{1}{16}$
2 $\frac{1}{4}$	3 $\frac{1}{4}$	7 $\frac{1}{4}$	3 $\frac{1}{4}$	7 $\frac{1}{4}$	11 $\frac{1}{4}$	14 $\frac{3}{4}$	3 $\frac{1}{2}$	1 $\frac{3}{4}$	5 $\frac{3}{4}$	1 $\frac{1}{2}$	4	2 $\frac{1}{16}$	1 $\frac{1}{16}$	1 $\frac{1}{16}$
2 $\frac{1}{2}$	4 $\frac{1}{8}$	8 $\frac{1}{8}$	3 $\frac{1}{2}$	7 $\frac{1}{2}$	12	15 $\frac{1}{8}$	4 $\frac{1}{8}$	1 $\frac{7}{8}$	1	1 $\frac{1}{2}$	4 $\frac{1}{8}$	2 $\frac{1}{16}$	2 $\frac{1}{16}$	1 $\frac{1}{16}$

FAFNIR DOUBLE RIGID PILLOW BLOCKS

DRN Type

The Fafnir Double Rigid Pillow Block, Type DRN, is specifically designed to provide a sturdy two-bearing mounting for fans and blowers, bench grinders, buffers, vertical shafts and similar heavy-duty applications.

A streamlined, one-piece housing is equipped with two Fafnir Wide Inner Ring Ball Bearings, widely spaced for maximum rigidity, and incorporating integral frictionless Mechani-Seals. For unusually dirty applications, extra Dust-seal collars can be furnished on special order at slight additional costs.



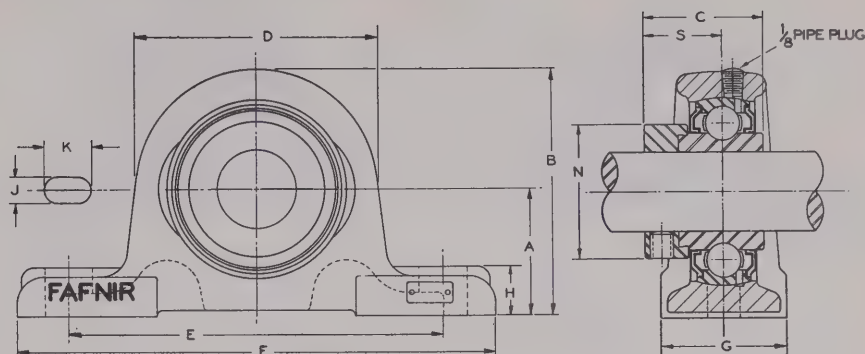
Order unit as DRN and shaft size. Example: DRN 1 $\frac{3}{16}$

Shaft Size Inches	Inches									Bolt Size Inches	Dowel Pin Inches	Bearings Used
	A	B	C	D	E	F	G	H	K			
1 ⁵ / ₁₆	2 ¹ / ₂	7 ⁷ / ₈	7 ³ / ₄	4 ¹ / ₄	6 ¹ / ₄	2 ³ / ₄	5 ⁸ / ₈	3 ⁴ / ₈	11 ¹ / ₁₆	3 ⁸ / ₈	3 ⁸ / ₈	1015KL
1 ³ / ₈	2 ¹ / ₂	8	7 ³ / ₄	4 ¹ / ₄	6 ¹ / ₄	2 ³ / ₄	5 ⁸ / ₈	7 ⁸ / ₈	13 ¹ / ₁₆	3 ⁸ / ₈	3 ⁸ / ₈	1103KL
1 ⁷ / ₁₆	3	10 ⁷ / ₈	10	5 ¹ / ₂	8	3 ¹ / ₂	7 ⁸ / ₈	1	7 ⁸ / ₈	1 ² / ₂	3 ⁸ / ₈	1107KL
1 ¹¹ / ₁₆	3	11	10	5 ¹ / ₂	8	3 ¹ / ₂	7 ⁸ / ₈	1	7 ⁸ / ₈	1 ² / ₂	3 ⁸ / ₈	1111KL
1 ¹⁵ / ₁₆	3 ¹ / ₂	13 ⁷ / ₈	12	7	9 ¹ / ₂	4 ¹ / ₂	1 ¹ / ₈	1 ¹ / ₈	1	5 ⁸ / ₈	1 ² / ₂	1115KL
2 ³ / ₁₆	3 ¹ / ₂	14	12	7	9 ¹ / ₂	4 ¹ / ₂	1 ¹ / ₈	1 ¹ / ₄	1 ¹ / ₁₆	5 ⁸ / ₈	1 ² / ₂	1203KL



FAFNIR PILLOW BLOCKS LSA AND RSA SERIES

Fafnir LSA and RSA units have the same base-to-center height and bolt spacing as the Fafnir SA Pillow Block. LSA blocks are equipped with G-KLLB (Mechani-Seal) bearings. RSA units are equipped with G - KRRB Plya - Seal bearings. See page 217 and 218.



When ordering specify shaft size and type.

Example: LSA-1-3/16 for Mechani-seal bearing equipped.

RSA-1-3/16 for Plya-seal bearing equipped.

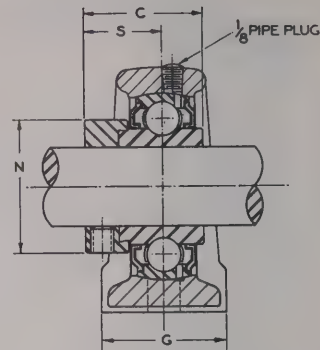
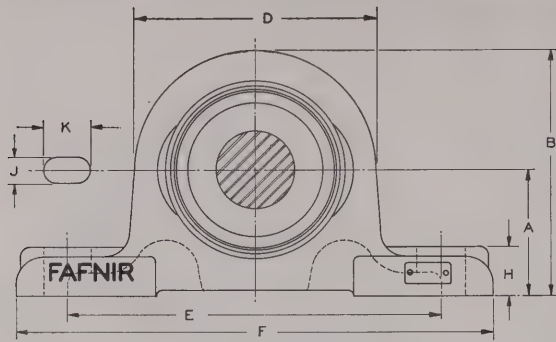
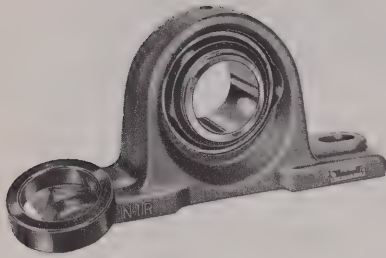
Shaft Diam. Inches	INCHES												Bolt Size Inches
	A	B	C	D	E	F	G	H	J	K	N	S	
$\frac{1}{2}$ $\frac{9}{16}$ $\frac{5}{8}$ $\frac{11}{16}$	$1\frac{1}{4}$	$2\frac{5}{16}$	$1\frac{15}{32}$	$2\frac{1}{8}$	$3\frac{13}{16}$	$4\frac{13}{16}$	$1\frac{1}{4}$	$\frac{1}{2}$	$\frac{7}{16}$	$\frac{9}{16}$	$1\frac{3}{16}$	$\frac{59}{64}$	$\frac{3}{8}$
* $\frac{3}{4}$	$1\frac{3}{4}$	3	$1\frac{23}{32}$	$2\frac{1}{2}$	5	$6\frac{1}{2}$	2	$\frac{9}{16}$	$\frac{9}{16}$	$\frac{3}{4}$	$1\frac{5}{16}$	$1\frac{3}{64}$	$\frac{1}{2}$
$\frac{13}{16}$ $\frac{7}{8}$ $\frac{15}{16}$ *1	2	$3\frac{3}{8}$	$1\frac{3}{4}$	$2\frac{3}{4}$	$5\frac{1}{2}$	7	$2\frac{1}{8}$	$\frac{5}{8}$	$\frac{9}{16}$	$\frac{3}{4}$	$1\frac{1}{2}$	$1\frac{1}{16}$	$\frac{1}{2}$
$\frac{11}{16}$ $\frac{11}{8}$ * $\frac{13}{16}$	2	$3\frac{19}{32}$	$1\frac{29}{32}$	$3\frac{3}{16}$	$5\frac{1}{2}$	7	$2\frac{1}{8}$	$\frac{11}{16}$	$\frac{5}{8}$	$\frac{13}{16}$	$1\frac{3}{4}$	$1\frac{3}{16}$	$\frac{1}{2}$
$\frac{11}{4}$ $\frac{15}{16}$ $\frac{13}{8}$ * $\frac{7}{16}$	$2\frac{3}{8}$	$4\frac{3}{8}$	$2\frac{1}{64}$	4	$6\frac{1}{4}$	$8\frac{1}{4}$	$2\frac{5}{8}$	$\frac{7}{8}$	$\frac{3}{4}$	$1\frac{1}{4}$	$2\frac{3}{16}$	$1\frac{9}{32}$	$\frac{5}{8}$
* $\frac{11}{2}$ $\frac{19}{16}$	$2\frac{3}{8}$	$4\frac{3}{8}$	$2\frac{7}{32}$	4	$6\frac{5}{8}$	$8\frac{1}{4}$	$2\frac{3}{8}$	$\frac{3}{4}$	$\frac{3}{4}$	$\frac{7}{8}$	$2\frac{3}{8}$	$1\frac{3}{8}$	$\frac{5}{8}$
$\frac{15}{8}$ * $\frac{11}{16}$ $\frac{13}{4}$	$2\frac{3}{8}$	$4\frac{1}{2}$	$2\frac{7}{32}$	$4\frac{1}{4}$	$6\frac{5}{8}$	$8\frac{1}{4}$	$2\frac{3}{8}$	$\frac{13}{16}$	$\frac{3}{4}$	$\frac{15}{16}$	$2\frac{1}{2}$	$1\frac{3}{8}$	$\frac{5}{8}$
$\frac{113}{16}$ $\frac{17}{8}$ * $\frac{115}{16}$	$2\frac{3}{4}$	$5\frac{1}{8}$	$2\frac{15}{32}$	$4\frac{3}{4}$	$8\frac{1}{4}$	$10\frac{5}{8}$	$2\frac{3}{4}$	$1\frac{1}{32}$	$\frac{3}{4}$	$1\frac{3}{8}$	$2\frac{3}{4}$	$1\frac{1}{2}$	$\frac{5}{8}$
2 $\frac{21}{16}$ $\frac{21}{8}$ * $\frac{23}{16}$	$3\frac{1}{8}$	$5\frac{19}{32}$	$2\frac{13}{16}$	$4\frac{15}{16}$	9	$11\frac{3}{8}$	$3\frac{1}{8}$	1	$\frac{3}{4}$	$1\frac{5}{16}$	3	$1\frac{23}{32}$	$\frac{5}{8}$
$\frac{21}{4}$ $\frac{25}{16}$ $\frac{23}{8}$ * $\frac{27}{16}$	$3\frac{1}{8}$	$5\frac{7}{8}$	* $3\frac{1}{16}$	$5\frac{1}{2}$	9	$11\frac{3}{8}$	$3\frac{1}{8}$	$1\frac{1}{8}$	$\frac{7}{8}$	$1\frac{1}{8}$	$3\frac{5}{16}$	$1\frac{27}{32}$	$\frac{3}{4}$
$\frac{25}{8}$ Δ* $\frac{211}{16}$	$3\frac{3}{4}$	$6\frac{13}{16}$	$3\frac{1}{4}$	$6\frac{1}{8}$	$10\frac{1}{4}$	$12\frac{5}{8}$	$3\frac{1}{2}$	$1\frac{5}{16}$	$\frac{7}{8}$	$1\frac{3}{8}$	$3\frac{13}{16}$	$2\frac{1}{32}$	$\frac{3}{4}$
$\frac{23}{4}$ $\frac{213}{16}$ $\frac{27}{8}$ * $\frac{215}{16}$	$3\frac{3}{4}$	7	$3\frac{5}{8}$	$7\frac{23}{32}$	$10\frac{1}{4}$	$12\frac{5}{8}$	$3\frac{1}{2}$	$1\frac{1}{2}$	$\frac{7}{8}$	$1\frac{1}{4}$	4	$2\frac{5}{32}$	$\frac{3}{4}$

*Preferred Sizes.

ΔAvailable only as RSA $2\frac{11}{16}$ " with G1211KRRB bearing.

NEED HELP ON BEARINGS—CALL US

FAFNIR PILLOW BLOCKS LSAO AND RSAO HEAVY SERIES



Fafnir LSAO and RSAO units have the same base-to-center height and bolt hole spacing as Fafnir heavy series SAO Pillow Blocks. They are ideally suited for installations where the load is heavy in proportion to the shaft diameter or where considerable shock loads exist.

The LSAO type pillow blocks are equipped with GN-KLLB (Mechani-Seal) wide inner ring bearings. The RSAO type pillow blocks are equipped with GN-KRRB (Plya-Seal) wide inner ring ball bearings. See pages 217 and 218.

When ordering specify shaft size and type.

Example: LSAO-1-3/16

RSAO-3-3/16 for Plya-seal bearing equipped.

□ Shaft Diam. Inches	INCHES												Bolt Size Inches
	A	B	C	D	E	F	G	H	J	K	N	S	
1 ¹ / ₁₆ 1 ¹ / ₈ *1 ³ / ₁₆	2 ³ / ₈	4 ¹ / ₄	1 ³¹ / ₃₂	3 ³ / ₄	6 ⁵ / ₈	8 ¹ / ₄	2 ³ / ₈	7 ⁷ / ₈	5 ⁵ / ₈	1	1 ¹⁵ / ₁₆	1 ⁹ / ₃₂	1/2
1 ¹ / ₄ 1 ⁵ / ₁₆ 1 ³ / ₈ *1 ⁷ / ₁₆	2 ³ / ₄	4 ¹³ / ₁₆	2 ¹ / ₃₂	4 ¹ / ₈	8 ¹ / ₄	10 ⁵ / ₈	2 ³ / ₄	1 ⁵ / ₁₆	3 ³ / ₄	1 ¹ / ₈	2 ³ / ₁₆	1 ⁵ / ₁₆	5/8
*1 ¹ / ₂ 1 ⁹ / ₁₆	3 ¹ / ₈	5 ³ / ₈	2 ¹ / ₄	4 ¹ / ₂	9	11 ³ / ₈	3 ¹ / ₈	1 ¹ / ₁₆	3 ³ / ₄	1 ¹ / ₈	2 ¹ / ₂	1 ¹⁵ / ₃₂	5/8
1 ⁵ / ₈ *1 ¹¹ / ₁₆ 1 ³ / ₄	3 ¹ / ₈	5 ⁵ / ₈	2 ⁵ / ₁₆	5	9	11 ³ / ₈	3 ¹ / ₈	1 ³ / ₁₆	3 ³ / ₄	1 ¹ / ₈	2 ³ / ₄	1 ¹⁷ / ₃₂	5/8
1 ¹³ / ₁₆ 1 ⁷ / ₈ *1 ¹⁵ / ₁₆	3 ¹ / ₈	5 ²⁷ / ₃₂	2 ⁵ / ₈	5 ⁷ / ₁₆	9	11 ³ / ₈	3 ¹ / ₈	1 ⁵ / ₁₆	3 ³ / ₄	1 ¹ / ₈	3	1 ²¹ / ₃₂	5/8
2 2 ¹ / ₁₆ 2 ¹ / ₈ *2 ³ / ₁₆	3 ³ / ₄	6 ²³ / ₃₂	2 ⁷ / ₈	5 ¹⁵ / ₁₆	10 ¹ / ₄	12 ⁵ / ₈	3 ¹ / ₂	1 ⁷ / ₁₆	7 ⁷ / ₈	1 ³ / ₈	3 ¹ / ₄	1 ²⁵ / ₃₂	3/4
2 ¹ / ₄ 2 ⁵ / ₁₆ 2 ³ / ₈ *2 ⁷ / ₁₆	4 ¹ / ₈	7 ¹¹ / ₃₂	3 ¹ / ₈	6 ⁷ / ₁₆	11 ¹ / ₄	13 ³ / ₄	4	1 ¹ / ₂	7 ⁷ / ₈	1 ³ / ₈	3 ¹ / ₂	1 ²⁹ / ₃₂	3/4
2 ⁵ / ₈ *2 ¹¹ / ₁₆ 2 ³ / ₄	4 ⁹ / ₁₆	8 ⁹ / ₃₂	3 ¹ / ₂	7 ⁷ / ₁₆	12	15 ³ / ₈	4 ³ / ₈	1 ³ / ₄	1	1 ³ / ₈	4	2 ⁵ / ₃₂	7/8
2 ¹³ / ₁₆ 2 ⁷ / ₈ *2 ¹⁵ / ₁₆	4 ⁹ / ₁₆	8 ⁹ / ₁₆	3 ¹⁵ / ₁₆	8	12 ³ / ₈	15 ³ / ₈	4 ³ / ₈	1 ⁷ / ₈	1	1 ³ / ₈	4 ⁷ / ₁₆	2 ¹⁵ / ₃₂	7/8
△*3 ³ / ₁₆	4 ⁹ / ₁₆	8 ²⁵ / ₃₂	4 ³ / ₁₆	8 ⁷ / ₁₆	12 ³ / ₈	15 ³ / ₈	4 ³ / ₈	1 ¹⁵ / ₁₆	1	1 ³ / ₄	4 ¹¹ / ₁₆	2 ¹⁹ / ₃₂	7/8
△*3 ⁷ / ₁₆	5 ¹ / ₈	9 ⁷ / ₈	4 ⁹ / ₁₆	9 ¹ / ₂	13 ³ / ₈	16 ¹ / ₈	4 ³ / ₄	2 ¹ / ₄	1 ¹ / ₈	2 ¹ / ₈	5 ¹ / ₄	2 ²⁷ / ₃₂	1
△*3 ¹⁵ / ₁₆	5 ¹¹ / ₁₆	11 ¹ / ₁₆	5 ¹ / ₁₆	10 ³ / ₄	14 ³ / ₄	17 ⁵ / ₁₆	5 ¹ / ₈	2 ⁹ / ₁₆	1 ¹ / ₈	1 ³ / ₄	5 ³ / ₄	3 ³ / ₃₂	1

*Preferred Sizes.

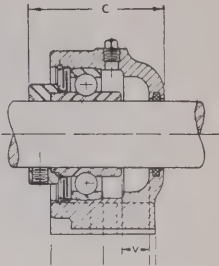
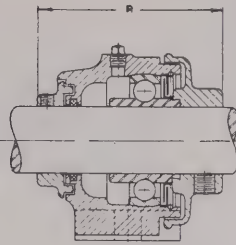
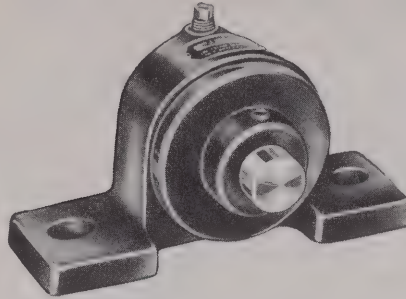
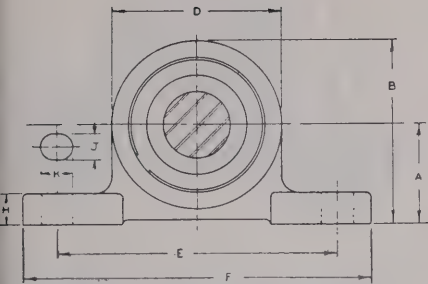
□ Available only as LSAO Type in sizes 1¹/₁₆" through 2¹⁵/₁₆" shaft diameters.

△ Available only as RSAO Type.

FAFNIR BALL BEARING PILLOW BLOCKS

Standard Series

With And Without Dust Seal Collars



Equipped With "MU-B" Machine Units,
see Page 215

SADD Type
with
Double Seals

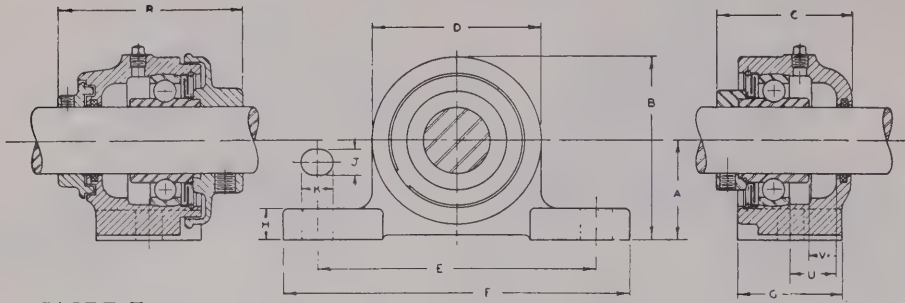
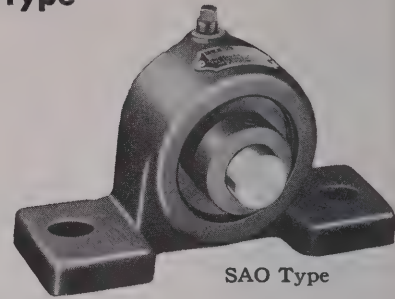
SA Type

When ordering, specify shaft size. Example: SA 1 7/16"

Shaft Diam. Inches	A	B	C	D	E	F	G	H	J	K	R	BOLTS	
												No.	Size
9/16	1 1/4	2 3/8	2 1/32	2 1/4	3 13/16	4 13/16	1 1/4	3/8	7/16	7/16	2 7/8	2	3/8
5/8	1 1/4	2 3/8	2 1/32	2 1/4	3 13/16	4 13/16	1 1/4	3/8	7/16	7/16	2 7/8	2	3/8
1 1/16	1 1/4	2 3/8	2 1/32	2 1/4	3 13/16	4 13/16	1 1/4	3/8	7/16	7/16	2 7/8	2	3/8
3/4	1 3/4	3 1/16	2 3/8	2 5/8	5	6 1/2	2	5/8	9/16	3/4	3 3/32	2	7/16
13/16	2	3 3/8	2 29/64	2 3/4	5 1/2	7	2 1/8	5/8	9/16	3/4	3 5/16	2	1 1/2
7/8	2	3 3/8	2 29/64	2 3/4	5 1/2	7	2 1/8	5/8	9/16	3/4	3 5/16	2	1 1/2
1 5/16	2	3 3/8	2 29/64	2 3/4	5 1/2	7	2 1/8	5/8	9/16	3/4	3 5/16	2	1 1/2
1	2	3 3/8	2 29/64	2 3/4	5 1/2	7	2 1/8	5/8	9/16	3/4	3 5/16	2	1 1/2
1 1/16	2	3 5/8	2 3/4	3 1/4	5 1/2	7	2 1/8	1 1/16	5/8	3/4	3 33/64	2	1 1/2
1 1/8	2	3 5/8	2 3/4	3 1/4	5 1/2	7	2 1/8	1 1/16	5/8	3/4	3 33/64	2	1 1/2
1 3/16	2	3 5/8	2 3/4	3 1/4	5 1/2	7	2 1/8	1 1/16	5/8	3/4	3 33/64	2	1 1/2
1 1/4	2 3/8	4 3/16	3 3/64	3 5/8	6 1/4	8 1/4	2 5/8	3/4	3/4	1 1/4	4	2	5/8
1 5/16	2 3/8	4 3/16	3 3/64	3 5/8	6 1/4	8 1/4	2 5/8	3/4	3/4	1 1/4	4	2	5/8
1 3/8	2 3/8	4 3/16	3 3/64	3 5/8	6 1/4	8 1/4	2 5/8	3/4	3/4	1 1/4	4	2	5/8
1 7/16	2 3/8	4 3/16	3 3/64	3 5/8	6 1/4	8 1/4	2 5/8	3/4	3/4	1 1/4	4	2	5/8
1 1/2	2 3/8	4 3/8	3 15/64	4	6 5/8	8 1/4	2 3/8	3/4	5/8	3/4	4 21/64	2	1 1/2
1 9/16	2 3/8	4 3/8	3 15/64	4	6 5/8	8 1/4	2 3/8	3/4	5/8	3/4	4 21/64	2	1 1/2
1 5/8	2 3/8	4 7/16	3 3/8	4 1/8	6 5/8	8 1/4	2 3/8	3/4	5/8	3/4	4 19/32	2	1 1/2
1 11/16	2 3/8	4 7/16	3 3/8	4 1/8	6 5/8	8 1/4	2 3/8	3/4	5/8	3/4	4 19/32	2	1 1/2
1 3/4	2 3/8	4 7/16	3 3/8	4 1/8	6 5/8	8 1/4	2 3/8	3/4	5/8	3/4	4 19/32	2	1 1/2
1 13/16	2 3/4	4 15/16	3 19/32	4 3/8	8 1/4	10 5/8	2 3/4	7/8	3/4	15/16	4 15/16	2	5/8
1 7/8	2 3/4	4 15/16	3 19/32	4 3/8	8 1/4	10 5/8	2 3/4	7/8	3/4	15/16	4 15/16	2	5/8
1 15/16	2 3/4	4 15/16	3 19/32	4 3/8	8 1/4	10 5/8	2 3/4	7/8	3/4	15/16	4 15/16	2	5/8
2	3 1/8	5 11/16	4	5 1/8	9	11 3/8	3 1/8	13/16	3/4	1	5 3/16	2	5/8
2 1/16	3 1/8	5 11/16	4	5 1/8	9	11 3/8	3 1/8	13/16	3/4	1	5 3/16	2	5/8
2 1/8	3 1/8	5 11/16	4	5 1/8	9	11 3/8	3 1/8	13/16	3/4	1	5 3/16	2	5/8
2 3/16	3 1/8	5 11/16	4	5 1/8	9	11 3/8	3 1/8	13/16	3/4	1	5 3/16	2	5/8
2 1/4	3 1/8	5 13/16	4 21/64	5 3/8	9	11 3/8	3 1/8	13/16	3/4	1	5 21/32	2	5/8
2 5/16	3 1/8	5 13/16	4 21/64	5 3/8	9	11 3/8	3 1/8	13/16	3/4	1	5 21/32	2	5/8
2 3/8	3 1/8	5 13/16	4 21/64	5 3/8	9	11 3/8	3 1/8	13/16	3/4	1	5 21/32	2	5/8
2 7/16	3 1/8	5 13/16	4 21/64	5 3/8	9	11 3/8	3 1/8	13/16	3/4	1	5 21/32	2	5/8
2 1/2	3 3/4	6 11/16	4 37/64	5 7/8	10 1/4	12 5/8	3 1/2	1 1/16	7/8	1 1/4	6 7/64	2	3/4
2 11/16	3 3/4	6 3/4	4 49/64	6	10 1/4	12 5/8	3 1/2	1	7/8	1 1/4	6 21/64	2	3/4
2 15/16	3 3/4	7	4 7/8	6 1/2	10 1/4	12 5/8	3 1/2	1	7/8	1 1/4	6 3/16	2	3/4
3 3/16	4 1/8	7 5/8	5 29/64	7	11 1/4	13 3/4	4	1 1/16	7/8	1 1/4	6 63/64	2	3/4
3 7/16	4 9/16	8 5/16	5 23/32	7 1/2	12 3/8	15 3/8	4 3/8	1 1/4	1	1 5/16	6 27/32	2	7/8
3 11/16	4 9/16	8 3/4	6 13/32	8 3/8	12 3/8	15 3/8	4 3/8	1 1/4	1	1 5/16	7 27/32	2	7/8
3 15/16	5 1/8	9 11/16	6 55/64	9 1/8	13 3/8	16 1/8	4 3/4	1 1/4	1	1 5/16	8 3/64	2	7/8

Recommended shaft tolerances: 9/16"-2"=Nominal to -.0005", 2 1/16"-3 15/16"=Nominal to -.0010"
When ordering bearing replacements for these units specify machine unit symbol MUB followed by shaft size. Example: MUB 2 7/16".
When ordering dust seal collar (or rear dust seal) replacements specify as in the following example: Dust seal collar (or rear dust seal) only for SADD 2 7/16".

SA, SAD and SADD Type are being Superseded by LSA, RSA Type.
See Page 223.

FAFNIR BALL BEARING PILLOW BLOCKS**Heavy Series SAO, SAOD and SAODD Type****SAODD Type
with
Double Seals****SAO Type****SAO Type**

SAO, SAOD and SAODD Type being superseded by LSAO and RSAO Types. See page 224.

Equipped With "MUOB" Machine Units, see Page 216
When ordering, specify shaft size. Example: SAO 1 7/16".

Shaft Dia. Inches	A	B	C	D	E	F	G	H	J	K	L†	R	U	BOLTS	
														No.	Size
5/8	1 1/2	2 3/4	2 29/64	2 1/2	4 1/2	6	2	1 1/2	5/8	7/8	...	3 15/64	1	2	1 1/2
1 1/16	1 1/2	2 3/4	2 29/64	2 1/2	4 1/2	6	2	1 1/2	5/8	7/8	...	3 15/64	1	2	1 1/2
3/4	1 5/8	3	2 45/64	2 3/4	5	6 1/2	2	5/8	5/8	7/8	...	3 33/64	1 7/64	2	1 1/2
13/16	2	3 5/8	2 27/32	3 1/4	5 1/2	7	2 1/8	5/8	5/8	7/8	...	3 23/32	1 9/32	2	1 1/2
7/8	2	3 5/8	2 27/32	3 1/4	5 1/2	7	2 1/8	5/8	5/8	7/8	...	3 23/32	1 9/32	2	1 1/2
1 5/16	2	3 5/8	2 27/32	3 1/4	5 1/2	7	2 1/8	5/8	5/8	7/8	...	3 23/32	1 9/32	2	1 1/2
1	2	3 5/8	2 27/32	3 1/4	5 1/2	7	2 1/8	5/8	5/8	7/8	...	3 23/32	1 9/32	2	1 1/2
1 1/16	2 3/8	4 1/4	3 1/8	3 3/4	6 5/8	8 1/4	2 3/8	1 1/16	5/8	7/8	...	4 3/16	1 3/16	2	1 1/2
1 1/8	2 3/8	4 1/4	3 1/8	3 3/4	6 5/8	8 1/4	2 3/8	1 1/16	5/8	7/8	...	4 3/16	1 3/16	2	1 1/2
1 3/16	2 3/8	4 1/4	3 1/8	3 3/4	6 5/8	8 1/4	2 3/8	1 1/16	5/8	7/8	...	4 3/16	1 3/16	2	1 1/2
1 1/4	2 3/4	4 7/8	3 15/64	4 1/4	8 1/4	10 5/8	2 3/4	1 3/16	3/4	1	...	4 7/16	1 35/64	2	5/8
1 5/16	2 3/4	4 7/8	3 15/64	4 1/4	8 1/4	10 5/8	2 3/4	1 3/16	3/4	1	...	4 7/16	1 35/64	2	5/8
1 3/8	2 3/4	4 7/8	3 15/64	4 1/4	8 1/4	10 5/8	2 3/4	1 3/16	3/4	1	...	4 7/16	1 35/64	2	5/8
1 7/16	2 3/4	4 7/8	3 15/64	4 1/4	8 1/4	10 5/8	2 3/4	1 3/16	3/4	1	...	4 7/16	1 35/64	2	5/8
1 1/2	3 1/8	5 15/32	3 21/32	4 11/16	9	11 3/8	3 1/8	1 3/16	3/4	1	...	4 25/32	1 3/4	2	5/8
1 9/16	3 1/8	5 15/32	3 21/32	4 11/16	9	11 3/8	3 1/8	1 3/16	3/4	1	...	4 25/32	1 3/4	2	5/8
1 5/8	3 1/8	5 11/16	4	5 1/8	9	11 3/8	3 1/8	1 3/16	3/4	1	...	5 3/16	1 5/8	2	5/8
1 11/16	3 1/8	5 11/16	4	5 1/8	9	11 3/8	3 1/8	1 3/16	3/4	1	...	5 3/16	1 5/8	2	5/8
1 3/4	3 1/8	5 11/16	4	5 1/8	9	11 3/8	3 1/8	1 3/16	3/4	1	...	5 3/16	1 5/8	2	5/8
1 13/16	3 1/8	5 7/8	4 11/32	5 1/2	9	11 3/8	3 1/8	1 3/16	3/4	1	...	5 5/8	2 3/16	2	5/8
1 7/8	3 1/8	5 7/8	4 11/32	5 1/2	9	11 3/8	3 1/8	1 3/16	3/4	1	...	5 5/8	2 3/16	2	5/8
1 5/16	3 1/8	5 7/8	4 11/32	5 1/2	9	11 3/8	3 1/8	1 3/16	3/4	1	...	5 5/8	2 3/16	2	5/8
2	3 3/4	6 27/32	4 49/64	6 3/16	10 1/4	12 5/8	3 1/2	1 1/16	7/8	1 1/4	...	6 9/64	1 5/8	2	3/4
2 1/16	3 3/4	6 27/32	4 49/64	6 3/16	10 1/4	12 5/8	3 1/2	1 1/16	7/8	1 1/4	...	6 9/64	1 5/8	2	3/4
2 1/8	3 3/4	6 27/32	4 49/64	6 3/16	10 1/4	12 5/8	3 1/2	1 1/16	7/8	1 1/4	...	6 9/64	1 5/8	2	3/4
2 3/16	3 3/4	6 27/32	4 49/64	6 3/16	10 1/4	12 5/8	3 1/2	1 1/16	7/8	1 1/4	...	6 9/64	1 5/8	2	3/4
2 1/4	4 1/8	7 3/8	4 13/16	6 1/2	11 1/4	13 3/4	4	1 1/16	7/8	1 1/4	...	6 3/8	1 11/16	2	3/4
2 5/16	4 1/8	7 3/8	4 13/16	6 1/2	11 1/4	13 3/4	4	1 1/16	7/8	1 1/4	...	6 3/8	1 11/16	2	3/4
2 3/8	4 1/8	7 3/8	4 13/16	6 1/2	11 1/4	13 3/4	4	1 1/16	7/8	1 1/4	...	6 3/8	1 11/16	2	3/4
2 7/16	4 1/8	7 3/8	4 13/16	6 1/2	11 1/4	13 3/4	4	1 1/16	7/8	1 1/4	...	6 3/8	1 11/16	2	3/4
2 1/2	4 9/16	8 1/16	5 17/32	7	12	15 3/8	4 3/8	1 1/4	1	1 1/4	...	6 27/32	2 9/16	2	7/8
2 11/16	4 9/16	8 3/8	6 3/16	7 5/8	12	15 3/8	4 3/8	1 1/4	1	1 1/4	...	7 1/2	2 25/32	2	7/8
2 5/16	4 9/16	8 13/16	6 25/64	8 1/2	12 3/8	15 3/8	4 3/8	1 1/4	1	1 1/4	...	7 49/64	3 15/64	2	7/8
3 3/16	4 9/16	8 7/8	6 7/16	8 5/8	12 3/8	15 3/8	4 3/8	1 1/4	1	1 1/4	2 1/4	7 61/64	3 5/32	4	7/8
3 1/4	5	9 1/2	6 49/64	9	13	15 3/4	4 1/2	1 1/4	1	1 1/4	2 1/2	8 13/16	3 23/64	4	7/8
3 7/16	5 1/8	9 13/16	7	9 3/8	13 3/8	16 1/8	4 3/4	1 1/4	1	1 1/4	3	8 5/32	3 13/32	4	7/8
3 11/16	5 11/16	10 9/16	7 11/16	9 3/4	14 3/4	17 1/16	4 15/16	1 1/4	1 1/8	1 1/2	...	9	2 27/32	2	1
3 15/16	5 11/16	10 15/16	7 3/4	10 1/2	14 3/4	17 1/16	5 1/8	1 3/8	1 1/8	1 1/2	...	9 3/16	3 29/32	2	1
4 3/16	6 1/4	11 3/4	8 17/32	11	17 11/16	21 1/4	6 1/4	1 3/4	1 1/4	1 3/4	...	9 13/16	4 3/16	2	1 1/8
4 7/16	6 1/4	12 1/4	8 25/32	12	17 11/16	21 1/4	6 1/4	1 7/8	1 1/4	1 3/4	...	9 31/32	3 13/16	2	1 1/8
4 5/16	7 1/2	14 1/2	9 11/16	14	20 1/4	24 13/16	6 11/16	2	1 3/8	2	...	11 1/16	5 1/8	2	1 1/4

†Where 4 bolts are used L is the distance between centers.

Recommended shaft tolerances: 5/8" - 2" = Nominal to -.0005", 2 1/16" - 3 15/16" = Nominal to -.0010", Tolerances for larger sizes on request.

When ordering bearing replacements for these units specify machine unit symbol MUOB followed by shaft size. Example: MUOB 2 1/16".

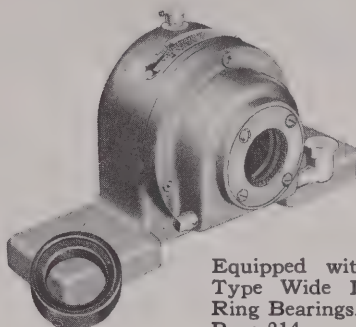
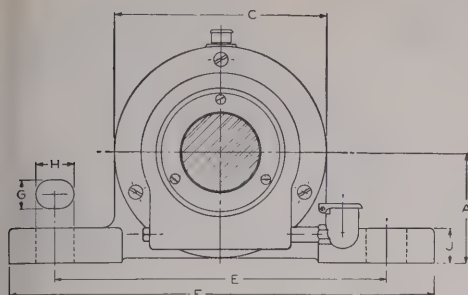
When ordering dust-seal collar (or rear dust seal) replacements, specify as in the following example: Dust-seal collar (or rear dust seal) only for SAODD 2 1/16".

NEED HELP ON BEARINGS—CALL US

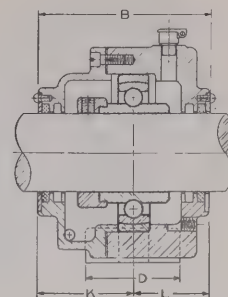
FAFNIR BALL BEARING PILLOW BLOCKS

SAL AND SAOL TYPES

Fixed and Floating Units



Top half shows floating application; bottom half shows fixed application.



SAL (Standard Series) and SAOL (Heavy Series) pillow blocks are specifically designed for applications involving higher than usual temperatures. They are usually supplied in pairs (one fixed and one floating), the fixed unit locating the shaft, and the floating unit allowing its bearing to move laterally as the shaft expands due to temperature rise.

Equipped with S Type Wide Inner Ring Bearings. See Page 214.

These units are fitted with oil-tight seals and, though normally fitted for oil lubrication, can be fitted for grease lubrication when specified. For applications requiring termination of the shaft within the housing,

they can also be supplied with either end completely closed when specified.

STANDARD SERIES—SAL TYPE

Shaft Diam. Inches	A	B	C	D	E	F	G	H	J	K	L	Total Float Inches	Replacement Bearing Number
1 ³ / ₁₆	2	3 ²⁷ / ₃₂	3 ¹³ / ₁₆	2 ¹ / ₈	5 ¹ / ₂	7	5 ⁵ / ₈	3 ³ / ₄	1 ¹¹ / ₁₆	2 ⁷ / ₃₂	1 ⁵ / ₈	1 ¹ / ₄	PSM1103S
1 ¹ / ₄	2 ³ / ₈	4 ¹ / ₈	4 ¹ / ₄	2 ³ / ₈	6 ¹ / ₄	8 ¹ / ₄	3 ³ / ₄	1	3 ³ / ₄	2 ¹⁵ / ₃₂	1 ²¹ / ₃₂	1 ¹ / ₄	PSM1104S
1 ⁷ / ₁₆	2 ³ / ₈	4 ¹ / ₈	4 ¹ / ₄	2 ³ / ₈	6 ¹ / ₄	8 ¹ / ₄	3 ³ / ₄	1	3 ³ / ₄	2 ¹⁵ / ₃₂	1 ²¹ / ₃₂	1 ¹ / ₄	PSM1107S
1 ¹ / ₂	2 ³ / ₈	4 ¹ / ₄	4 ³ / ₄	2 ³ / ₈	6 ⁵ / ₈	8 ¹ / ₄	3 ³ / ₄	1	3 ³ / ₄	2 ¹ / ₂	1 ³ / ₄	5 ⁵ / ₁₆	PSM1108TS
1 ¹¹ / ₁₆	2 ³ / ₈	4 ¹¹ / ₃₂	4 ³ / ₄	2 ³ / ₈	6 ⁵ / ₈	8 ¹ / ₄	3 ³ / ₄	1	3 ³ / ₄	2 ¹⁹ / ₃₂	1 ³ / ₄	5 ⁵ / ₁₆	PSM1111S
1 ¹⁵ / ₁₆	2 ³ / ₈	4 ¹⁹ / ₃₂	5 ¹ / ₄	2 ³ / ₈	8 ¹ / ₄	10 ⁵ / ₈	3 ³ / ₄	1	7 ⁷ / ₈	2 ²³ / ₃₂	1 ⁷ / ₈	5 ⁵ / ₁₆	PSM1115S
2 ³ / ₁₆	3 ¹ / ₈	5 ¹³ / ₃₂	5 ³ / ₄	3 ¹ / ₈	9	11 ³ / ₈	3 ³ / ₄	1	7 ⁷ / ₈	3 ¹ / ₈	2 ⁹ / ₃₂	5 ⁵ / ₁₆	PSM1203S
2 ⁷ / ₁₆	3 ¹ / ₈	5 ²⁹ / ₃₂	6 ¹ / ₄	3 ¹ / ₈	9	11 ³ / ₈	3 ³ / ₄	1	7 ⁷ / ₈	3 ¹ / ₂	2 ¹³ / ₁₆	3 ³ / ₈	PSM1207S
2 ¹ / ₂	3 ³ / ₄	6 ⁵ / ₃₂	7	3 ¹ / ₂	10 ¹ / ₄	12 ⁵ / ₈	7 ⁷ / ₈	1 ¹ / ₈	1 ¹ / ₁₆	3 ⁵ / ₈	2 ¹⁷ / ₃₂	9 ³ / ₃₂	PSM1208S
2 ¹ / ₁₆	3 ³ / ₄	6 ⁵ / ₃₂	6 ³ / ₄	3 ¹ / ₂	10 ¹ / ₄	12 ⁵ / ₈	7 ⁷ / ₈	1 ¹ / ₈	1 ¹ / ₁₆	3 ⁵ / ₈	2 ¹⁷ / ₃₂	9 ³ / ₃₂	PSM1211TS
2 ¹ / ₁₆	3 ³ / ₄	6 ²⁷ / ₃₂	7 ¹ / ₂	3 ¹ / ₂	10 ¹ / ₄	12 ⁵ / ₈	7 ⁷ / ₈	1 ¹ / ₈	1 ¹ / ₁₆	3 ⁵ / ₈	2 ¹⁷ / ₃₂	9 ³ / ₃₂	PSM1215S
2 ³ / ₁₆	4 ¹ / ₈	6 ²⁹ / ₃₂	7 ⁷ / ₈	4	11 ¹ / ₄	13 ³ / ₄	7 ⁷ / ₈	1 ¹ / ₈	1 ¹ / ₁₆	3 ²⁹ / ₃₂	3	2 ⁵ / ₆₄	PSM1303S
3 ⁷ / ₁₆	4 ⁹ / ₁₆	7 ¹¹ / ₃₂	8 ³ / ₈	4 ³ / ₈	12 ³ / ₈	15 ³ / ₈	1	1 ¹ / ₄	1 ¹ / ₄	4 ⁷ / ₃₂	3 ¹ / ₈	3 ³ / ₈	PSM1307S
3 ¹¹ / ₁₆	4 ⁹ / ₁₆	8 ⁷ / ₃₂	9 ¹ / ₂	4 ³ / ₈	12 ³ / ₈	15 ³ / ₈	1	1 ¹ / ₄	1 ¹ / ₄	4 ³ / ₄	3 ¹⁷ / ₃₂	1 ¹ / ₂	PSM1311S
3 ¹⁵ / ₁₆	5 ¹ / ₈	8 ¹⁷ / ₃₂	10	4 ³ / ₄	13 ³ / ₈	16 ³ / ₈	1	1 ¹ / ₄	1 ¹ / ₄	4 ⁷ / ₈	3 ²¹ / ₃₂	1 ¹ / ₂	PSM1315S

HEAVY SERIES—SAOL TYPE

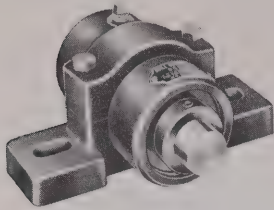
Shaft Diam. Inches	A	B	C	D	E	F	G	H	J	K	L	M†	Total Float Inches	Replacement Bearing Number
1 ³ / ₁₆	2 ³ / ₈	4 ¹ / ₁₆	4 ³ / ₈	2 ³ / ₈	6 ⁵ / ₈	8 ¹ / ₄	5 ⁵ / ₈	7 ⁷ / ₈	1 ¹¹ / ₁₆	2 ³ / ₈	1 ¹¹ / ₁₆	...	5 ⁵ / ₁₆	PSM1103S
1 ¹ / ₄	2 ³ / ₈	4 ³ / ₈	4 ³ / ₄	2 ³ / ₄	8 ¹ / ₄	10 ⁵ / ₈	3 ³ / ₄	1	1 ¹³ / ₁₆	2 ²³ / ₃₂	1 ²¹ / ₃₂	...	2 ²³ / ₆₄	PSM1104S
1 ⁷ / ₁₆	2 ³ / ₈	4 ³ / ₈	4 ³ / ₄	2 ³ / ₄	8 ¹ / ₄	10 ⁵ / ₈	3 ³ / ₄	1	1 ¹³ / ₁₆	2 ²³ / ₃₂	1 ²¹ / ₃₂	...	2 ²³ / ₆₄	PSM1107S
1 ¹ / ₂	3 ¹ / ₈	4 ⁷ / ₈	5 ³ / ₄	3 ¹ / ₈	9	11 ³ / ₈	3 ³ / ₄	1	1 ¹³ / ₁₆	2 ¹⁵ / ₁₆	1 ¹⁵ / ₁₆	...	3 ³ / ₈	PSM1108S
1 ¹¹ / ₁₆	3 ¹ / ₈	4 ⁷ / ₈	5 ³ / ₄	3 ¹ / ₈	9	11 ³ / ₈	3 ³ / ₄	1	1 ¹³ / ₁₆	2 ¹⁵ / ₁₆	1 ¹⁵ / ₁₆	...	3 ³ / ₈	PSM1111S
1 ¹⁵ / ₁₆	3 ¹ / ₈	4 ¹³ / ₁₆	6 ¹ / ₄	3 ¹ / ₈	9	11 ³ / ₈	3 ³ / ₄	1	1 ¹³ / ₁₆	2 ²⁹ / ₃₂	1 ²⁵ / ₃₂	...	3 ³ / ₈	PSM1115S
2 ³ / ₁₆	3 ³ / ₄	5 ¹ / ₂	6 ³ / ₄	3 ¹ / ₂	10 ¹ / ₄	12 ⁵ / ₈	7 ⁷ / ₈	1 ¹ / ₄	1 ¹ / ₁₆	3 ¹ / ₄	2 ¹ / ₄	...	2 ²³ / ₆₄	PSM1203S
2 ⁷ / ₁₆	4 ¹ / ₈	5 ²⁹ / ₃₂	7 ¹ / ₂	4	11 ¹ / ₄	13 ³ / ₄	7 ⁷ / ₈	1 ¹ / ₄	1 ¹ / ₁₆	3 ¹⁹ / ₃₂	2 ⁵ / ₁₆	...	1 ¹ / ₃₂	PSM1207S
2 ¹ / ₂	4 ⁹ / ₁₆	6 ⁷ / ₈	8 ¹ / ₂	4 ³ / ₈	12	15 ³ / ₈	1	1 ¹ / ₄	1 ¹ / ₄	4 ⁵ / ₁₆	2 ⁹ / ₁₆	...	3 ³ / ₈	PSM1211S
2 ¹ / ₁₆	4 ⁹ / ₁₆	7	8 ⁷ / ₈	4 ³ / ₈	12 ³ / ₈	15 ³ / ₈	1	1 ¹ / ₄	1 ¹ / ₄	4 ¹ / ₈	2 ⁷ / ₈	...	1 ¹ / ₂	PSM1215S
2 ³ / ₁₆	4 ⁹ / ₁₆	7 ¹ / ₄	9 ¹ / ₂	4 ³ / ₈	12 ³ / ₈	15 ³ / ₈	1	1 ¹ / ₄	1 ¹ / ₄	4 ¹ / ₄	3	2 ¹ / ₄	3 ³ / ₄	PSM1303S
3 ⁷ / ₁₆	5 ¹ / ₈	7 ¹ / ₂	10 ¹ / ₄	4 ³ / ₄	13 ³ / ₈	16 ³ / ₈	1	1 ¹ / ₄	1 ¹ / ₄	4 ³ / ₈	3 ¹ / ₈	3	1 ¹⁷ / ₃₂	PSM1307S
3 ¹¹ / ₁₆	5 ¹¹ / ₁₆	8 ¹³ / ₃₂	11	4 ¹⁵ / ₁₆	14 ³ / ₄	17 ⁵ / ₁₆	1 ¹ / ₈	1 ¹ / ₂	1 ¹ / ₄	5 ¹ / ₄	3 ⁵ / ₃₂	...	1 ¹ / ₂	PSM1311S
3 ¹⁵ / ₁₆	6	8 ²¹ / ₃₂	11 ³ / ₄	5 ¹ / ₄	15 ¹ / ₂	18 ¹ / ₂	1 ¹ / ₈	1 ¹ / ₂	1 ³ / ₈	5	3 ²¹ / ₃₂	3 ¹ / ₄	1 ¹¹ / ₁₆	PSM1315S
4 ³ / ₁₆	6 ¹ / ₂	8 ⁷ / ₈	12 ¹ / ₂	6 ³ / ₄	17 ¹¹ / ₁₆	21 ¹ / ₄	1 ¹ / ₈	1 ¹ / ₂	1 ¹ / ₂	5 ⁹ / ₃₂	3 ¹⁵ / ₃₂	4	5 ⁵ / ₈	PSM1403S
4 ⁷ / ₈	7	9	12 ⁷ / ₈	6 ³ / ₄	17 ¹¹ / ₁₆	21 ¹ / ₄	1 ¹ / ₄	1 ³ / ₄	1 ³ / ₄	5 ⁵ / ₁₆	3 ¹¹ / ₁₆	4 ¹ / ₄	9 ¹ / ₁₆	PSM1407S
4 ¹⁵ / ₁₆	8 ¹ / ₄	10 ⁵ / ₁₆	15	7 ¹ / ₄	20 ¹ / ₄	24 ¹³ / ₁₆	1 ¹ / ₄	1 ³ / ₄	2	6	4 ⁵ / ₁₆	4 ³ / ₄	1 ¹⁵ / ₆₄	PSM1415S

Recommended shaft tolerances: 1³/₁₆"-2" = Nominal to -.0005". 2³/₁₆"-3¹⁵/₁₆" = Nominal to -.0010". Tolerances for larger sizes on request.

† Where 4 bolts are used, "M" is the distance between center lines; "K" and "L" being then measured from center of base.

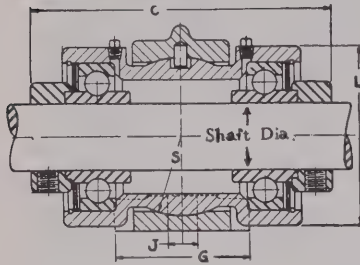
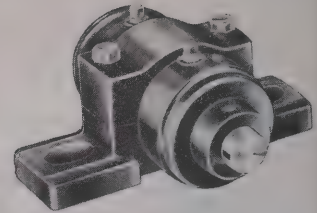
When ordering specify shaft size and whether fixed or floating type.

Example: SAL-1⁷/₁₆" Fixed Type or SAL-1⁷/₁₆" Floating Type Pillow Block.

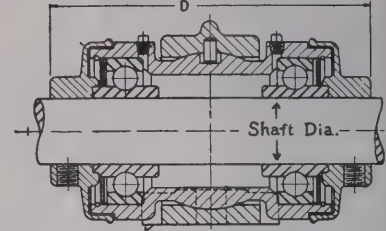
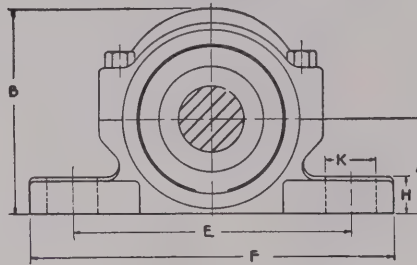


FAFNIR BALL BEARINGS DOUBLE PILLOW BLOCKS

Standard Series
DSA and DSADD Types



DSA Type



DSADD Type — Extra Seals

Standard Series Double Pillow Blocks incorporate two Standard Series Wide Inner Ring Bearings with self-locking collars. The DSA type is equipped with standard labyrinth seals and meets the requirements of normal applications. For unusually dirty applications the DSADD type with dust-seal collars is recommended. Initial self-alignment is provided by means of the spherically surfaced center section of the bearing housing which is free to swivel in the spherical seat of the pillow block before the top cap bolts are tightened.

STANDARD SERIES — DSA AND DSADD Equipped With "MU-A" Machine Units, See Page 215

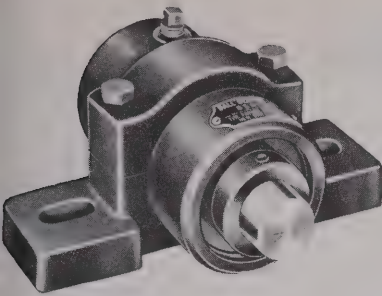
Shaft Diameter Inches	A	B	C	D	E	F	G	H	J	K	L	S	BOLTS	
													No.	Size
9/16	1 3/16	2 1/2	4 5/16	5	4 1/4	6	1 3/4	5/8	9/16	1	2 1/16	7/8	2	1/2
5/8	1 3/16	2 1/2	4 5/16	5	4 1/4	6	1 3/4	5/8	9/16	1	2 1/16	7/8	2	1/2
11/16	1 3/16	2 1/2	4 5/16	5	4 1/4	6	1 3/4	5/8	9/16	1	2 1/16	7/8	2	1/2
3/4	1 3/16	2 3/4	4 11/16	5 3/8	4 1/2	6 1/4	2	3/4	9/16	1	2 3/8	1 1/2	2	1/2
13/16	1 7/16	3	4 29/32	5 31/64	4 3/4	6 1/2	2	3/4	9/16	1	2 9/16	1 5/32	2	1/2
7/8	1 7/16	3	4 29/32	5 31/64	4 3/4	6 1/2	2	3/4	9/16	1	2 9/16	1 5/32	2	1/2
15/16	1 7/16	3	4 29/32	5 31/64	4 3/4	6 1/2	2	3/4	9/16	1	2 9/16	1 5/32	2	1/2
1	1 7/16	3	4 29/32	5 31/64	4 3/4	6 1/2	2	3/4	9/16	1	2 9/16	1 5/32	2	1/2
1 1/16	1 5/8	3 3/8	5 5/8	6 1/32	5 5/8	7 3/4	2 1/4	3/4	1 1/4	1 1/4	2 31/32	1 5/16	2	5/8
1 1/8	1 5/8	3 3/8	5 5/8	6 1/32	5 5/8	7 3/4	2 1/4	3/4	1 1/4	1 1/4	2 31/32	1 5/16	2	5/8
1 1/4	1 5/8	3 3/8	5 5/8	6 1/32	5 5/8	7 3/4	2 1/4	3/4	1 1/4	1 1/4	2 31/32	1 5/16	2	5/8
1 1/2	1 13/16	4 1/16	6 11/32	7 7/64	5 7/8	8	2 5/8	13/16	1 1/4	1 1/4	3 3/8	1 15/32	2	5/8
1 3/8	1 13/16	4 1/16	6 11/32	7 7/64	5 7/8	8	2 5/8	13/16	1 1/4	1 1/4	3 3/8	1 15/32	2	5/8
1 5/8	1 13/16	4 1/16	6 11/32	7 7/64	5 7/8	8	2 5/8	13/16	1 1/4	1 1/4	3 3/8	1 15/32	2	5/8
1 7/8	1 13/16	4 1/16	6 11/32	7 7/64	5 7/8	8	2 5/8	13/16	1 1/4	1 1/4	3 3/8	1 15/32	2	5/8
1 9/16	2 1/8	4 3/4	6 23/32	7 3/4	6 3/8	8 1/2	3	7/8	1 1/4	1 1/4	4	1 13/16	2	5/8
1 5/8	2 1/8	4 3/4	6 23/32	7 3/4	6 3/8	8 1/2	3	7/8	1 1/4	1 1/4	4	1 13/16	2	5/8
1 11/16	2 1/8	4 3/4	6 23/32	7 3/4	6 3/8	8 1/2	3	7/8	1 1/4	1 1/4	4	1 13/16	2	5/8
1 3/4	2 1/8	4 3/4	6 23/32	7 3/4	6 3/8	8 1/2	3	7/8	1 1/4	1 1/4	4	1 13/16	2	5/8
1 15/16	2 5/16	5 5/16	7 59/64	8 23/32	7 11/16	10 1/4	3 3/8	7/8	1 1/2	1 1/2	4 5/16	2	2	3/4
2	2 5/16	5 5/16	7 59/64	8 23/32	7 11/16	10 1/4	3 3/8	7/8	1 1/2	1 1/2	4 5/16	2	2	3/4
2 1/16	2 1/2	5 1/2	7 61/64	8 37/64	7 7/8	10 3/8	3 3/4	1	1 1/2	1 1/2	4 11/16	2 1/8	2	3/4
2 1/8	2 1/2	5 1/2	7 61/64	8 37/64	7 7/8	10 3/8	3 3/4	1	1 1/2	1 1/2	4 11/16	2 1/8	2	3/4
2 3/16	2 1/2	5 1/2	7 61/64	8 37/64	7 7/8	10 3/8	3 3/4	1	1 1/2	1 1/2	4 11/16	2 1/8	2	3/4
2 1/4	2 3/4	6	8 7/16	9 11/16	8 1/4	10 3/4	4	1 1/16	1 1/2	1 1/2	5 1/4	2 5/16	2	3/4
2 5/16	2 3/4	6	8 7/16	9 11/16	8 1/4	10 3/4	4	1 1/16	1 1/2	1 1/2	5 1/4	2 5/16	2	3/4
2 3/8	2 3/4	6	8 7/16	9 11/16	8 1/4	10 3/4	4	1 1/16	1 1/2	1 1/2	5 1/4	2 5/16	2	3/4
2 7/16	2 3/4	6	8 7/16	9 11/16	8 1/4	10 3/4	4	1 1/16	1 1/2	1 1/2	5 1/4	2 5/16	2	3/4
2 1/2	2 15/16	6 1/8	9 3/32	10 1/4	8 5/8	11 1/2	4 3/8	1 1/8	1 3/4	1 3/4	5 5/8	2 15/32	2	3/4
2 11/16	2 15/16	6 1/8	9 3/32	10 1/4	8 5/8	11 1/2	4 3/8	1 1/8	1 3/4	1 3/4	5 5/8	2 15/32	2	3/4
2 13/16	3 1/16	6 7/8	9 63/64	10 55/64	9 1/8	12 1/8	4 3/4	1 3/8	2	2	6 1/8	2 11/16	2	3/4
3 3/16	3 7/8	8	10 31/32	11 29/32	9 5/8	12 7/8	5 1/8	1 1/4	1	2 1/6	6 9/16	3	2	7/8
3 7/16	4 1/2	8 7/8	11 53/64	12 33/64	10	13 1/2	6	1 5/16	1	2 3/8	7 1/8	3 1/8	2	7/8
3 11/16	4 3/4	9 1/2	12 53/64	13 53/64	10 3/4	14 1/4	6 1/2	1 3/8	1	2 3/8	8	3 1/2	2	7/8
3 15/16	5 1/8	10 1/8	13 31/32	14 19/32	11	15	7	1 7/16	1	2 1/2	8 3/8	3 5/8	2	7/8

Each pillow block takes two bearing units.

Recommended shaft tolerances: $\frac{1}{16}'' - 2'' = \text{Nominal to } -.0005''$
 $2 \frac{1}{16}'' - 3 \frac{15}{16}'' = \text{Nominal to } -.0010''$

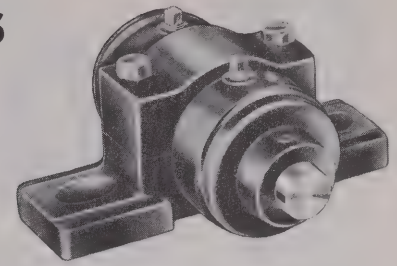
FAFNIR BALL BEARINGS DOUBLE PILLOW BLOCKS

Heavy Series
DSAO and DSAODD Types



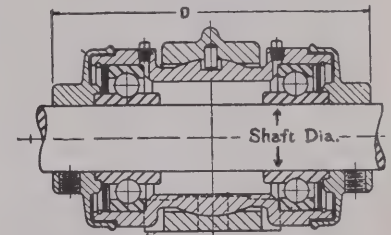
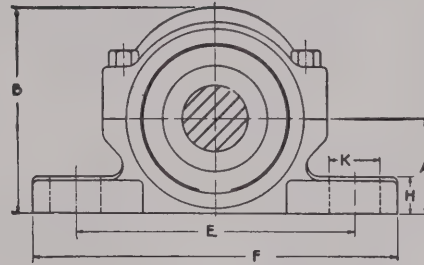
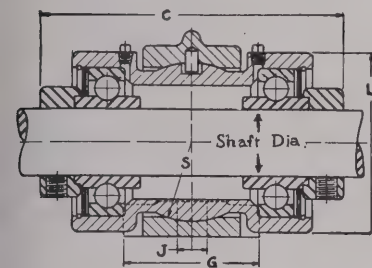
Heavy (Double)

DSAO



Heavy (Double)—Extra Seals

DSAODD



HEAVY SERIES — DSAO AND DSAODD — Equipped with "MUO-A" Machine Units, see Page 216

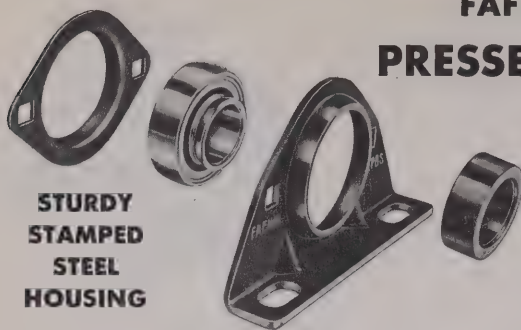
Shaft Diameter Inches	A	B	C	D	E	F	G	H	J	K	L	S	BOLTS	
													No.	Size
1 3/16	1 5/8	3 5/8	5 45/64	6 29/64	5 5/8	7 3/4	2 1/4	3/4	3/4	1 1/4	2 31/32	1 5/16	2	5/8
7/8	1 5/8	3 5/8	5 45/64	6 29/64	5 5/8	7 3/4	2 1/4	3/4	3/4	1 1/4	2 31/32	1 5/16	2	5/8
1 5/16	1 5/8	3 5/8	5 45/64	6 29/64	5 5/8	7 3/4	2 1/4	3/4	3/4	1 1/4	2 31/32	1 5/16	2	5/8
1	1 5/8	3 5/8	5 45/64	6 29/64	5 5/8	7 3/4	2 1/4	3/4	3/4	1 1/4	2 31/32	1 5/16	2	5/8
1 1/16	1 13/16	4 1/16	6 7/16	7 3/16	5 7/8	8	2 5/8	13/16	3/4	1 1/4	3 3/8	1 5/16	2	5/8
1 1/8	1 13/16	4 1/16	6 7/16	7 3/16	5 7/8	8	2 5/8	13/16	3/4	1 1/4	3 3/8	1 5/16	2	5/8
1 3/16	1 13/16	4 1/16	6 7/16	7 3/16	5 7/8	8	2 5/8	13/16	3/4	1 1/4	3 3/8	1 5/16	2	5/8
1 1/4	2 1/8	4 3/4	6 55/64	8 7/64	6 3/8	8 1/2	3	7/8	3/4	1 1/4	4	1 13/16	2	5/8
1 5/16	2 1/8	4 3/4	6 55/64	8 7/64	6 3/8	8 1/2	3	7/8	3/4	1 1/4	4	1 13/16	2	5/8
1 3/8	2 1/8	4 3/4	6 55/64	8 7/64	6 3/8	8 1/2	3	7/8	3/4	1 1/4	4	1 13/16	2	5/8
1 1/2	2 1/8	4 3/4	6 55/64	8 7/64	6 3/8	8 1/2	3	7/8	3/4	1 1/4	4	1 13/16	2	5/8
1 5/8	2 5/16	5 3/16	8	9	7 11/16	10 1/4	3 3/8	1 1/2	7/8	1 1/2	4 5/16	2	2	3/4
1 3/4	2 5/16	5 3/16	8	9	7 11/16	10 1/4	3 3/8	1 1/2	7/8	1 1/2	4 5/16	2	2	3/4
1 15/16	2 5/16	5 3/16	8	9	7 11/16	10 1/4	3 3/8	1 1/2	7/8	1 1/2	4 5/16	2	2	3/4
1 7/8	2 1/2	5 1/2	7 63/64	8 63/64	7 7/8	10 3/8	3 3/4	1	7/8	1 1/2	4 11/16	2 1/8	2	3/4
1 11/16	2 1/2	5 1/2	7 63/64	8 63/64	7 7/8	10 3/8	3 3/4	1	7/8	1 1/2	4 11/16	2 1/8	2	3/4
1 3/4	2 1/2	5 1/2	7 63/64	8 63/64	7 7/8	10 3/8	3 3/4	1	7/8	1 1/2	4 11/16	2 1/8	2	3/4
1 13/16	2 3/4	6	8 7/32	9 7/32	8 1/4	10 3/4	4	1 1/16	7/8	1 1/2	5 1/4	2 5/16	2	3/4
1 7/8	2 3/4	6	8 7/32	9 7/32	8 1/4	10 3/4	4	1 1/16	7/8	1 1/2	5 1/4	2 5/16	2	3/4
1 15/16	2 3/4	6	8 7/32	9 7/32	8 1/4	10 3/4	4	1 1/16	7/8	1 1/2	5 1/4	2 5/16	2	3/4
2	2 5/16	6 1/8	8 53/64	9 53/64	8 5/8	11 1/2	4 3/8	1 1/8	7/8	1 3/4	5 5/8	2 5/16	2	3/4
2 1/16	2 5/16	6 1/8	8 53/64	9 53/64	8 5/8	11 1/2	4 3/8	1 1/8	7/8	1 3/4	5 5/8	2 5/16	2	3/4
2 1/8	2 5/16	6 1/8	8 53/64	9 53/64	8 5/8	11 1/2	4 3/8	1 1/8	7/8	1 3/4	5 5/8	2 5/16	2	3/4
2 3/16	2 5/16	6 1/8	8 53/64	9 53/64	8 5/8	11 1/2	4 3/8	1 1/8	7/8	1 3/4	5 5/8	2 5/16	2	3/4
2 1/4	3 3/16	6 7/8	9 11/16	11 3/16	9 1/8	12 1/8	4 3/4	1 3/16	7/8	2	6 1/8	2 11/16	2	3/4
2 5/16	3 3/16	6 7/8	9 11/16	11 3/16	9 1/8	12 1/8	4 3/4	1 3/16	7/8	2	6 1/8	2 11/16	2	3/4
2 3/8	3 3/16	6 7/8	9 11/16	11 3/16	9 1/8	12 1/8	4 3/4	1 3/16	7/8	2	6 1/8	2 11/16	2	3/4
2 7/16	3 3/16	6 7/8	9 11/16	11 3/16	9 1/8	12 1/8	4 3/4	1 3/16	7/8	2	6 1/8	2 11/16	2	3/4
2 1/2	3 3/8	8	11 31/64	12 23/64	9 5/8	12 7/8	5 5/8	1 1/2	1	2 1/8	6 9/16	3	2	7/8
2 11/16	4 1/2	8 7/8	12 19/32	13 15/32	10	13 1/2	6	1 5/16	1	2 1/4	7 1/8	3 1/8	2	7/8
2 5/16	4 1/2	8 5/8	11 27/32	12 45/64	10	13 1/2	6	1 5/16	1	2 1/4	7 3/8	3	2	7/8
3 3/16	4 3/4	9 1/2	12 31/32	13 27/32	10 3/4	14 1/4	6 1/2	1 3/8	1	2 3/8	8	3 1/2	2	7/8
3 1/4	5 5/8	10 1/8	13 5/8	14 1/2	11	15	7	1 7/16	1	2 3/4	8 3/8	3 3/8	2	7/8
3 7/16	5 5/16	10 7/8	14 1/2	14 3/4	11 1/4	16	7	1 1/2	1 1/4	3 1/4	9	3 5/16	2	1 1/8
3 11/16	5 5/16	10 7/8	15 29/32	16 1/4	12	16	7 1/4	1 1/2	1 1/4	2 3/4	9 3/8	4 1/4	2	1 1/8
3 5/16	5 5/8	11 7/8	15 3/4	16 3/4	15	19 1/2	7 1/2	1 5/8	1 1/4	2 3/4	10 1/4	4 3/4	2	1 1/8
4 3/16	6	12 3/8	17 1/2	17 1/2	16	20 1/2	7 1/2	1 5/8	1 3/8	2 3/4	10 7/8	4 3/4	2	1 1/4
4 7/16	6 1/4	13 1/4	17 31/32	17 31/32	16 1/2	21	8	1 3/4	1 3/8	2 3/4	11 1/2	5	2	1 1/4
4 5/16	7 1/4	15 1/4	19 33/64	19 49/64	19	23 1/2	9	1 3/4	1 3/8	2 3/4	13 1/2	5 1/2	2	1 1/4

Each pillow block takes two bearing units.

Recommended shaft tolerances: 2 1/16"-2" = Nominal to —.0005".
2 1/16"-3 15/16" = Nominal to —.0010".
Tolerances for larger sizes on request.

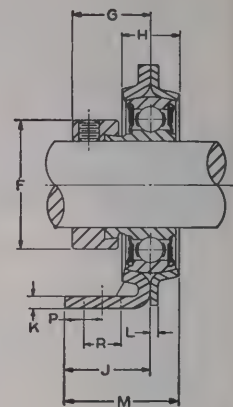
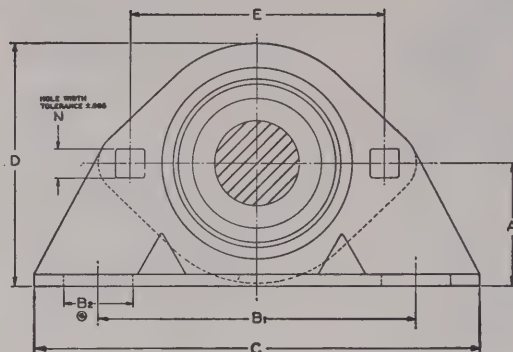
NEED HELP ON BEARINGS—CALL US

FAFNIR PILLOW BLOCKS PRESSED STEEL PBS SERIES



**STURDY
STAMPED
STEEL
HOUSING**

When ordering unit, specify type and shaft diameter, i.e.: PBS 1". This will include: (1) 52PBS Stamping, (1) 52MST Stamping, (1) RA100NPPB bearing and collar.



Shaft Diam. Inches	Base Plate Number	Back Plate Number	Bearing Number	INCHES																
				A	B ₁	B ₂	C	D	E	F	G	H	J	K	L	M	N	P	R	
$\frac{1}{2}$ * $\frac{9}{16}$ $\frac{5}{8}$	40PBS	40MST	RA008NPPB RA009NPPB RA010NPPB	$1\frac{3}{16}$	$3\frac{5}{8}$	$\frac{5}{8}$	$4\frac{7}{8}$	$2\frac{11}{32}$	$2\frac{1}{2}$	$1\frac{1}{8}$	$\frac{7}{8}$	$\frac{9}{16}$	1	.104	.075	$1\frac{9}{32}$	$\frac{9}{32}$	$1\frac{3}{32}$	$1\frac{3}{32}$	
$\frac{3}{4}$	47PBS	47MST	RA012NPPB	$1\frac{5}{16}$	$3\frac{13}{16}$	$\frac{5}{8}$	5	$2\frac{11}{16}$	$2\frac{13}{16}$	$1\frac{5}{16}$	$\frac{59}{64}$	$\frac{5}{8}$	1	.119	.083	$1\frac{5}{16}$	$\frac{11}{32}$	$1\frac{3}{32}$	$1\frac{3}{32}$	
* $\frac{13}{16}$ $\frac{7}{8}$ $\frac{15}{16}$ 1	52PBS	52MST	RA013NPPB RA014NPPB RA015NPPB RA100NPPB	$1\frac{7}{16}$	$3\frac{3}{4}$	$\frac{13}{16}$	$5\frac{1}{4}$	$2\frac{27}{32}$	3	$1\frac{1}{2}$	$\frac{59}{64}$	$\frac{11}{16}$	1	.134	.083	$1\frac{11}{32}$	$\frac{11}{32}$	$\frac{7}{16}$	$\frac{7}{16}$	
$\frac{11}{16}$ $\frac{1}{8}$ $\frac{13}{16}$ $\frac{1}{4}$	62PBS	62MST	RA101NPPB RA102NPPB RA103NPPB RA103NPPB2	$1\frac{11}{16}$	$4\frac{11}{16}$	$\frac{7}{8}$	$6\frac{1}{4}$	$3\frac{11}{32}$	$3\frac{9}{16}$	$1\frac{3}{4}$	$\frac{13}{64}$	$\frac{11}{16}$	$\frac{13}{16}$	.134	.104	$1\frac{15}{32}$	$\frac{13}{32}$	$\frac{9}{16}$	$\frac{9}{16}$	
$\frac{11}{4}$ $\frac{15}{16}$ $\frac{13}{8}$ $\frac{17}{16}$	72PBS	72MST	RA104NPPB RA105NPPB RA106NPPB RA107NPPB	$1\frac{7}{8}$	5	$\frac{7}{8}$	$6\frac{1}{2}$	$3\frac{23}{32}$	$3\frac{15}{16}$	$2\frac{3}{16}$	$\frac{15}{32}$	$\frac{7}{8}$	$\frac{13}{8}$	.149	.104	$1\frac{13}{16}$	$\frac{13}{32}$	$\frac{9}{16}$	$\frac{9}{16}$	

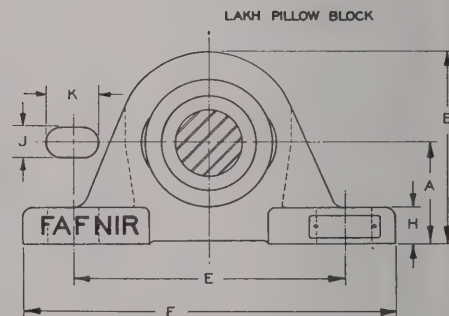
*Check for availability.

LAKH SERIES



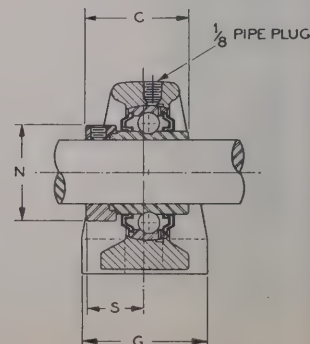
The LAKH type pillow blocks are similar in design to the other standard series pillow blocks, but have slightly different housing dimensions to make them interchangeable with certain other makes.

When ordering, specify shaft size.
Example: LAKH $1\frac{1}{16}$ "

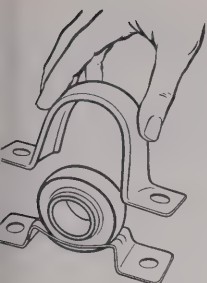


Shaft Diameter Inches	INCHES											Bolt Size Inches
	A	B	C	E	F	G	H	J	K	N	S	
$\frac{15}{16}$	$1\frac{3}{4}$	$3\frac{1}{4}$	$1\frac{3}{4}$	$4\frac{11}{16}$	$6\frac{1}{4}$	2	$\frac{5}{8}$	$\frac{9}{16}$	1	$1\frac{1}{2}$	$\frac{7}{8}$	$\frac{1}{2}$
$\frac{13}{16}$	$1\frac{1}{8}$	$3\frac{1}{16}$	$1\frac{1}{8}$	5	$6\frac{7}{8}$	$2\frac{1}{4}$	$\frac{11}{16}$	$\frac{9}{16}$	1	$1\frac{3}{4}$	1	$\frac{1}{2}$
$\frac{11}{16}$	$2\frac{1}{8}$	4	$2\frac{1}{4}$	$5\frac{11}{16}$	8	$2\frac{1}{2}$	$\frac{3}{4}$	$\frac{9}{16}$	$1\frac{3}{16}$	$2\frac{1}{16}$	$\frac{13}{16}$	$\frac{1}{2}$
$\frac{1}{2}$	$2\frac{1}{16}$	$4\frac{1}{8}$	$2\frac{1}{8}$	$6\frac{1}{8}$	$8\frac{3}{4}$	$2\frac{5}{8}$	$\frac{13}{16}$	$\frac{11}{16}$	$1\frac{1}{4}$	$2\frac{3}{8}$	$\frac{13}{16}$	$\frac{5}{8}$
$\frac{17}{16}$	$2\frac{5}{16}$	$4\frac{1}{2}$	$2\frac{1}{2}$	$6\frac{1}{8}$	$8\frac{3}{4}$	$2\frac{5}{8}$	$\frac{13}{16}$	$\frac{11}{16}$	$1\frac{5}{16}$	$2\frac{1}{2}$	$\frac{13}{16}$	$\frac{5}{8}$
$\frac{15}{16}$	$2\frac{1}{2}$	$4\frac{13}{16}$	$2\frac{1}{2}$	$6\frac{3}{4}$	$9\frac{1}{2}$	$2\frac{7}{8}$	$\frac{7}{8}$	$\frac{11}{16}$	$1\frac{7}{16}$	$2\frac{3}{4}$	$\frac{15}{16}$	$\frac{5}{8}$
$\frac{13}{16}$	$2\frac{3}{8}$	$5\frac{3}{8}$	$2\frac{1}{8}$	$7\frac{1}{4}$	$10\frac{1}{4}$	$3\frac{1}{8}$	$\frac{11}{16}$	$\frac{13}{16}$	$1\frac{7}{16}$	3	$\frac{15}{16}$	$\frac{5}{8}$
$\frac{11}{16}$	3	$5\frac{15}{16}$	$\frac{3}{16}$	8	$11\frac{1}{4}$	$\frac{3}{4}$	$\frac{11}{16}$	$\frac{13}{16}$	$1\frac{9}{16}$	$3\frac{1}{2}$	$\frac{15}{16}$	$\frac{5}{8}$
* $\frac{21}{16}$	$3\frac{1}{2}$	$6\frac{3}{4}$	$\frac{3}{8}$	9	13	$3\frac{1}{2}$	$\frac{13}{16}$	$\frac{15}{16}$	2	$3\frac{13}{16}$	$\frac{15}{16}$	$\frac{7}{8}$
$\frac{21}{16}$	$3\frac{1}{2}$	7	$\frac{3}{8}$	9	13	$3\frac{1}{2}$	$\frac{13}{16}$	$\frac{15}{16}$	2	4	$\frac{15}{16}$	$\frac{7}{8}$

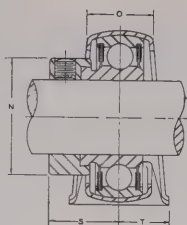
*Available only as RAKH $2\frac{11}{16}$ " with G1211KRRB bearing.



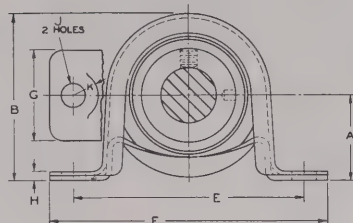
FAFNIR BALL BEARINGS PRESSED STEEL PILLOW BLOCK TYPE PB AND RPB



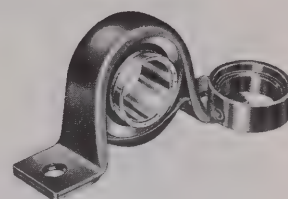
2 piece separable
pressed steel housing



PB Type



RPB Type



A complete economy unit
SELF ALIGNING
SEALED WITH PLYA
SEALS.

MAXIMUM RECOMMENDED SPEED 2400 RPM.

The PB type pillow block is designed for light-duty applications to provide the advantages of ball bearings at low cost. The unit consists of a two-piece separable steel housing with spherical bearing seat. This allows the spherically-ground bearing initial self-alignment in all directions.

The RPB type pillow block has the same construction as the PB type, but has a thick, electric-conductive rubber interliner. A specially-processed ball bearing provides exceptionally quiet operation. The bearing together with the rubber interliner comprise an RABR unit.

PB type When ordering specify shaft size. Example: PB 1 $\frac{3}{16}$ ".

Shaft Size Inches	Housing Number	Bearing Used	INCHES												Collar Number
			A	B	E	F	G	H	J	K	N	O	S	T	
$\frac{1}{2}$	40PB	RA008PPB	$\frac{7}{8}$	1 $\frac{25}{32}$	2 $\frac{11}{16}$	3 $\frac{3}{8}$	1	.100	$\frac{3}{8}$	1 $\frac{13}{32}$	1 $\frac{3}{16}$	.725	.869	.500	S1008K
$\frac{5}{16}$	40PB	RA009PPB	$\frac{7}{8}$	1 $\frac{25}{32}$	2 $\frac{11}{16}$	3 $\frac{3}{8}$	1	.100	$\frac{3}{8}$	1 $\frac{13}{32}$	1 $\frac{3}{16}$	.725	.869	.500	S1009K
$\frac{9}{16}$	40PB	RA010PPB	$\frac{7}{8}$	1 $\frac{25}{32}$	2 $\frac{11}{16}$	3 $\frac{3}{8}$	1	.100	$\frac{3}{8}$	1 $\frac{13}{32}$	1 $\frac{3}{16}$	.725	.869	.500	S1010K
$\frac{3}{4}$	47PB	RA012PPB	1	1 $\frac{45}{64}$	3	3 $\frac{7}{8}$	1 $\frac{1}{2}$	.100	$\frac{3}{8}$	1 $\frac{13}{32}$	1 $\frac{5}{16}$	.850	.923	.625	S1012K
1 $\frac{1}{16}$	52PB	RA013PPB	1 $\frac{1}{8}$	2 $\frac{13}{64}$	3 $\frac{3}{8}$	4 $\frac{1}{4}$	1 $\frac{1}{4}$	.115	$\frac{7}{16}$	1 $\frac{15}{32}$	1 $\frac{5}{16}$	.850	.923	.625	S1013K
$\frac{7}{8}$	52PB	RA014PPB	1 $\frac{1}{8}$	2 $\frac{13}{64}$	3 $\frac{3}{8}$	4 $\frac{1}{4}$	1 $\frac{1}{4}$	.115	$\frac{7}{16}$	1 $\frac{15}{32}$	1 $\frac{5}{16}$	.850	.923	.625	S1014K
1 $\frac{1}{16}$	52PB	RA015PPB	1 $\frac{1}{8}$	2 $\frac{13}{64}$	3 $\frac{3}{8}$	4 $\frac{1}{4}$	1 $\frac{1}{4}$	.115	$\frac{7}{16}$	1 $\frac{15}{32}$	1 $\frac{5}{16}$	.850	.923	.625	S1015K
1	52PB	RA100PPB	1 $\frac{1}{8}$	2 $\frac{13}{64}$	3 $\frac{3}{8}$	4 $\frac{1}{4}$	1 $\frac{1}{4}$	.115	$\frac{7}{16}$	1 $\frac{15}{32}$	1 $\frac{5}{16}$	.850	.923	.625	S1100K
1 $\frac{1}{16}$	62PB	RA101PPB	1 $\frac{1}{8}$	2 $\frac{13}{64}$	3 $\frac{3}{8}$	4 $\frac{5}{8}$	1 $\frac{1}{2}$	.148	$\frac{7}{16}$	1 $\frac{15}{32}$	1 $\frac{3}{4}$	1.005	1.052	.750	S1101K
1 $\frac{1}{8}$	62PB	RA102PPB	1 $\frac{1}{8}$	2 $\frac{13}{64}$	3 $\frac{3}{8}$	4 $\frac{5}{8}$	1 $\frac{1}{2}$	.148	$\frac{7}{16}$	1 $\frac{15}{32}$	1 $\frac{3}{4}$	1.005	1.052	.750	S1102K
1 $\frac{1}{4}$	62PB	RA103PPB	1 $\frac{1}{8}$	2 $\frac{13}{64}$	3 $\frac{3}{8}$	4 $\frac{5}{8}$	1 $\frac{1}{2}$	.148	$\frac{7}{16}$	1 $\frac{15}{32}$	1 $\frac{3}{4}$	1.005	1.052	.750	S1103K
1 $\frac{1}{4}$	62PB	RA103PPB2	1 $\frac{1}{8}$	2 $\frac{13}{64}$	3 $\frac{3}{8}$	4 $\frac{5}{8}$	1 $\frac{1}{2}$	.148	$\frac{7}{16}$	1 $\frac{15}{32}$	1 $\frac{3}{4}$	1.005	1.052	.750	S1103KL3

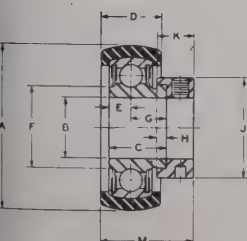
RPB type (with Rubber Mounted Bearing) When ordering always specify shaft size. Example: RPB 1"

$\frac{1}{2}$	47PB	RABR- $\frac{1}{2}$	1	1 $\frac{9}{16}$	3	3 $\frac{3}{8}$	1 $\frac{1}{4}$	.100	$\frac{3}{8}$	1 $\frac{13}{32}$	1 $\frac{3}{16}$	.850	.923	.625	S1008K
$\frac{5}{8}$	47PB	RABR- $\frac{5}{8}$	1	1 $\frac{9}{16}$	3	3 $\frac{3}{8}$	1 $\frac{1}{4}$	.100	$\frac{3}{8}$	1 $\frac{13}{32}$	1 $\frac{3}{16}$	.850	.923	.625	S1010K
$\frac{3}{4}$	52PB	RABR- $\frac{3}{4}$	1 $\frac{1}{8}$	2 $\frac{13}{64}$	3 $\frac{3}{8}$	4 $\frac{1}{4}$	1 $\frac{1}{4}$	.115	$\frac{7}{16}$	1 $\frac{15}{32}$	1 $\frac{5}{16}$	.850	.923	.625	S1012K
1 $\frac{1}{16}$	62PB	RABR- 1 $\frac{1}{16}$	1 $\frac{1}{8}$	2 $\frac{13}{64}$	3 $\frac{3}{8}$	4 $\frac{5}{8}$	1 $\frac{1}{2}$	.148	$\frac{7}{16}$	1 $\frac{15}{32}$	1 $\frac{3}{4}$	1.005	1.052	.750	S1015K
1	62PB	RABR-1	1 $\frac{1}{8}$	2 $\frac{13}{64}$	3 $\frac{3}{8}$	4 $\frac{5}{8}$	1 $\frac{1}{2}$	.148	$\frac{7}{16}$	1 $\frac{15}{32}$	1 $\frac{3}{4}$	1.005	1.052	.750	S1100K
1 $\frac{1}{8}$	62PB	RABR-1 $\frac{1}{8}$	1 $\frac{1}{8}$	2 $\frac{13}{64}$	3 $\frac{3}{8}$	4 $\frac{5}{8}$	1 $\frac{1}{2}$	.145	$\frac{7}{16}$	1 $\frac{15}{32}$	1 $\frac{3}{4}$	1.005	1.125	.750	RA103PP3

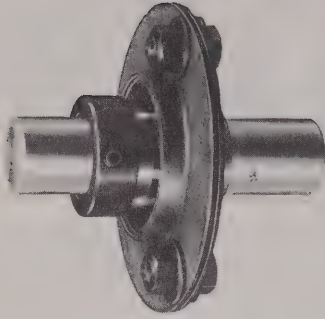
FAFNIR RABR UNIT

(RA-PPB Type Ball Bearing with Rubber Ring)

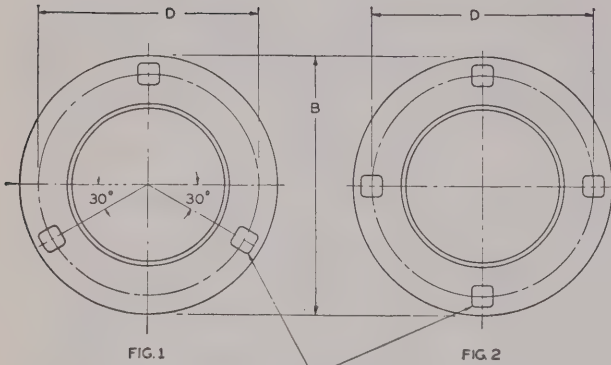
When ordering always specify shaft size. Example RABR 1".



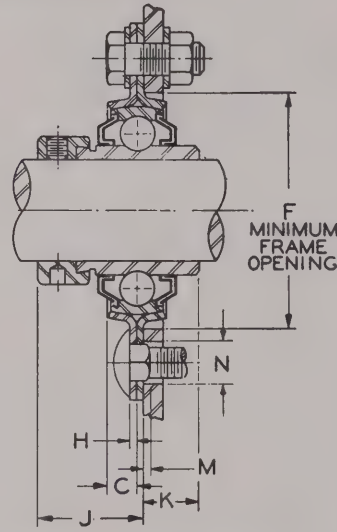
Bearing used	INCHES			INCHES						
	B Bore	A Outside Dia.	C Inner R. Width	D	E	G	F	H	K	M
RA008PPB RA010PPB	$\frac{1}{2}$ $\frac{5}{8}$	1 $\frac{27}{32}$	.7500	1 $\frac{1}{16}$	.2559	.4941	.879	$\frac{3}{32}$	1 $\frac{17}{32}$	1 $\frac{7}{32}$
RA012PPB	$\frac{3}{4}$	2 $\frac{1}{16}$	.8437	1 $\frac{1}{16}$	.2953	.5484	1.013	$\frac{3}{32}$	1 $\frac{17}{32}$	1 $\frac{9}{32}$
RA015PPB RA100PPB	1 $\frac{15}{16}$ 1	2 $\frac{7}{16}$	.8437	1 $\frac{1}{16}$	.2953	.5484	1.210	$\frac{3}{32}$	1 $\frac{17}{32}$	1 $\frac{11}{32}$

FAFNIR FLANGETTES**FURNISHED WITH MECHANI-SEAL OR PLYASEAL BEARINGS**

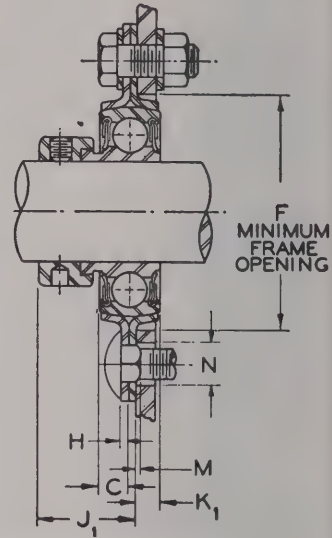
Fafnir Flangettes are comprised of two interchangeable pressed steel flanges which house a standard Fafnir Wide Inner Ring Ball Bearing with self-locking collar, providing a complete, inexpensive housed unit for light duty, slow speed applications. Compact, easily installed, and prelubricated, they assure the advantages of ball bearing performance at new low cost.



Stamping Sizes 40MS-72MS HOLE WIDTH (SQ) TOLERANCE $\pm .005$ Stamping Sizes 80MS-100MS



KLLB Mechanical-Seal Type
(With Plya-Seal, KRRB Type)



RAPPB Plya-seal type

When ordering, designate as LL or RR or RA Flangette, and specify shaft diameter. Example:

LL $\frac{1}{2}$ " FLANGETTE (Mechani-Seal Type)
RR $\frac{7}{8}$ " FLANGETTE (RR Type, Plya-Sealed)
RA 1" FLANGETTE (PP Type, Plya-Sealed)

Stamping Size	Shaft Diam. Inches	BEARING NUMBER		INCHES														
		Mechani-seal LL Type	Plya-seal RA Type	A	B	C	D	E Hole Width	F	H	WITH MECHANI-SEAL		WITH PLYA-SEAL		Bolt Size	M		†† N
											J	K	J	K		Short Shank	Long Shank	
40MS-C1 40MS-C1	$\frac{1}{2}$ $\frac{5}{8}$	1008KLLB 1010KLLB	RA008PPB RA010PPB	$2\frac{5}{16}$	$3\frac{3}{16}$	$\frac{9}{32}$	$2\frac{1}{2}$	$\frac{9}{32}$	$1\frac{15}{16}$	.075	1	$\frac{1}{2}$	$1\frac{15}{16}$	$\frac{7}{32}$	$\frac{1}{4}$	.006	.100	$1\frac{3}{32}$
47MS-C1	$\frac{3}{4}$	1012KLLB	RA012PPB	$2\frac{5}{8}$	$3\frac{3}{16}$	$\frac{5}{16}$	$2\frac{13}{16}$	$\frac{11}{32}$	$2\frac{3}{16}$	.083	$1\frac{1}{8}$	$\frac{5}{8}$	$\frac{63}{64}$	$\frac{1}{4}$	$\frac{5}{16}$	.021	.115	$\frac{1}{2}$
52MS-C1 52MS-C1 52MS-C1	$\frac{7}{8}$ $1\frac{1}{8}$ 1	1014KLLB 1015KLLB 1100KLLB	RA014PPB RA015PPB RA100PPB	$2\frac{51}{64}$	$3\frac{3}{4}$	$\frac{11}{32}$	3	$\frac{11}{32}$	$2\frac{3}{8}$	.083	$1\frac{1}{8}$	$\frac{5}{8}$	$\frac{63}{64}$	$\frac{9}{32}$	$\frac{5}{16}$	.021	.115	$\frac{1}{2}$
62MS-C1 62MS-C1 62MS-C1 62MS-C1	$1\frac{1}{16}$ $1\frac{1}{8}$ $1\frac{3}{8}$ $1\frac{1}{4}$	1101KLLB 1102KLLB 1103KLLB 1103KLLB3	RA101PPB RA102PPB RA103PPB RA103PPB2	$3\frac{5}{16}$	$4\frac{7}{16}$	$\frac{11}{32}$	$3\frac{9}{16}$	$\frac{13}{32}$	$2\frac{13}{16}$	.104	$1\frac{3}{8}$	$\frac{5}{8}$	$1\frac{3}{4}$	$1\frac{7}{8}$	$\frac{3}{8}$	.011	.104	$1\frac{9}{32}$
72MS-C1 72MS-C1 72MS-C1	$1\frac{5}{8}$ $1\frac{3}{4}$ $1\frac{7}{8}$	1105KLLB 1106KLLB 1107KLLB	RA105PPB RA106PPB RA107PPB	..	$4\frac{13}{16}$	$\frac{3}{8}$	$3\frac{15}{16}$	$\frac{13}{32}$	$3\frac{3}{16}$	.104	$1\frac{3}{8}$	$\frac{31}{32}$	$1\frac{1}{4}$	$1\frac{9}{4}$	$\frac{3}{8}$	.011	.104	$1\frac{9}{32}$
80MS-C1 80MS-C1	$1\frac{1}{2}$ $1\frac{5}{8}$	1108KLLB 1109KLLB	RA108PPB RA109PPB	....	$5\frac{13}{16}$	$\frac{13}{32}$	$4\frac{11}{16}$	$\frac{17}{32}$	$3\frac{9}{16}$	.134	$1\frac{1}{2}$	$\frac{3}{4}$	$1\frac{27}{64}$	$\frac{19}{64}$	$\frac{1}{2}$	.013	.107	$\frac{49}{64}$
85MS-C1 85MS-C1 85MS-C1	$1\frac{5}{8}$ $1\frac{11}{16}$ $1\frac{3}{4}$	1110KLLB 1111KLLB 1112KLLB	RA110PPB RA111PPB RA112PPB	....	$5\frac{7}{8}$	$\frac{7}{16}$	$4\frac{3}{4}$	$\frac{17}{32}$	$3\frac{13}{16}$	.134	$1\frac{1}{2}$	$\frac{3}{4}$	$1\frac{27}{64}$	$\frac{19}{64}$	$\frac{1}{2}$	.013	.107	$\frac{49}{64}$
90MS-C1	$1\frac{15}{16}$	1115KLLB	RA115PPB	....	$6\frac{1}{8}$	$\frac{7}{16}$	5	$\frac{17}{32}$	4	.149	$1\frac{21}{32}$	$\frac{27}{32}$	$1\frac{7}{8}$	$\frac{9}{32}$	$\frac{1}{2}$	.000	.077	$\frac{49}{64}$
100MS-C1	$2\frac{3}{16}$	1203KLLB	.....	....	$6\frac{9}{16}$	$\frac{13}{32}$	$5\frac{7}{16}$	$\frac{17}{32}$	$4\frac{7}{16}$	.149	$1\frac{7}{8}$	$\frac{31}{32}$	....	....	$\frac{1}{2}$	.000	.077	$\frac{49}{64}$

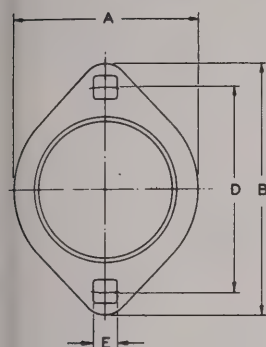
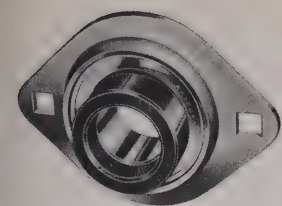
†† Flange hole diameter to clear square shank.

NOTE: Stamped mountings are not recommended for heavier loaded, higher speed applications for which Fafnir standard type LCJ Flange Cartridges are designed.

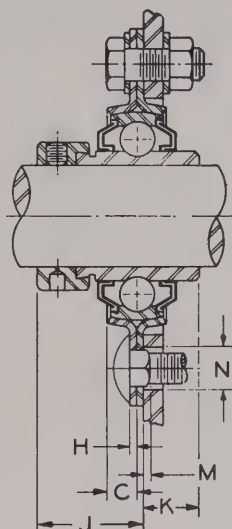
FAFNIR FLANGETTES

TWO-BOLT AND TRIANGULAR TYPES

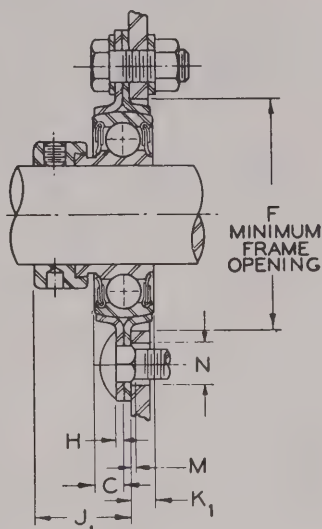
The Fafnir Two-bolt Flangettes and Triangular Flangettes are designed for installations where the standard Flangettes cannot be used because of space limitations.



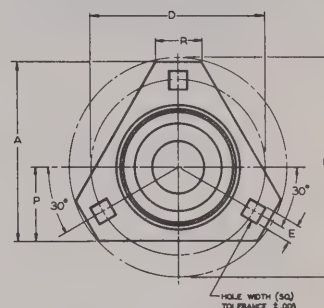
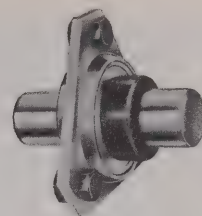
Two-bolt Flangette
LLT, RAT, RRT,
Type



KLLB Mechanical-Seal Type
(with Plya-Seal, KRRB Type)



RAPPB Plya-Seal Type



Triangular Flangette
LLTR, RRTR, RATR
Type

To order, specify
LLTR, RRTR, or
RATR Flangette and
shaft diameter ie.,
LLTR 1" Flangette.

Two-Bolt LLT, RRT, and RAT Types

Stamping Size	Shaft Size Inches	BEARING NUMBER		INCHES											Bolt Size In.	M		†† N
		Mechani- seal LL Type	Plya- seal RA Type	A	B	C	D	E Hole Width	F	H	J	J ₁	K	K ₁		Short Shank	Long Shank	
40MST 40MST	1/2 5/8	1008KLLB 1010KLLB	RA008PPB RA010PPB	2 5/16	3 5/16	9/32	2 1/2	9/32	1 15/16	.075	1	1 5/16	1/2	7/32	1/4	.006	.100	1 3/32
47MST	3/4	1012KLLB	RA012PPB	2 5/8	3 9/16	5/16	2 13/16	11/32	2 3/8	.083	1 1/8	63/64	5/8	1/4	5/16	.021	.115	1/2
52MST 52MST 52MST	7/8 1 1/16 1	1014KLLB 1015KLLB 1100KLLB	RA014PPB RA015PPB RA100PPB	2 51/64	3 3/4	11/32	3	11/32	2 3/8	.083	1 1/8	63/64	5/8	9/32	5/16	.021	.115	1/2
62MST 62MST 62MST 62MST	1 1/16 1 1/8 1 3/16 1 1/4	1102KLLB 1103KLLB 1103KLLB3	RA101PPB RA102PPB RA103PPB RA103PPB2	3 5/16	4 7/16	11/32	3 9/16	13/32	2 13/16	.104	1 3/32	1 3/64	5/8	17/64	3/8	.011	.104	1 9/32

Triangular LLTR, RRTR, and RATR Types

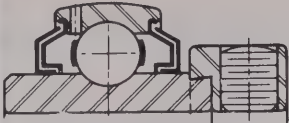
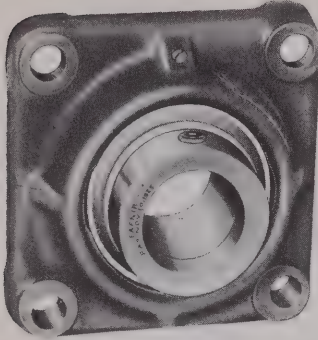
Stamping Size	Shaft Size In.	INCHES													Bolt Size In.	M		†† N
		A	B	C	D	E Hole Width	F	H	J	J ₁	K	K ₁	P	R		Short Shank	Long Shank	
47MSTR	3/4	3	3 9/16	5/16	2 13/16	11/32	2 3/8	.083	1 1/8	63/64	5/8	1/4	1 5/16	1 1/16	5/16	.006	.100	1/2
52MSTR	7/8 1 1/16 1	3 1/8	3 3/4	11/32	3	11/32	2 3/8	.083	1 1/8	63/64	5/8	9/32	1 3/8	1 3/32	5/16	.021	.115	1/2
62MSTR	1 1/16 1 1/8 1 3/16 1 1/4	3 11/16	4 7/16	11/32	3 9/16	13/32	2 13/16	.104	1 3/32	1 3/64	5/8	17/64	1 1/2	1	3/8	.011	.104	1 9/32

NOTE: J & K Dimensions apply to Mechani-Seal type (LL) and Plya-Seal (RR) Flangette.

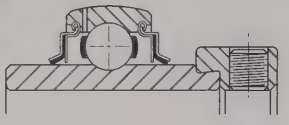
J₁ & K₁ Dimensions apply to Plya-Seal type (RA) Flangettes.

††Flange hole diameter to clear square shank.

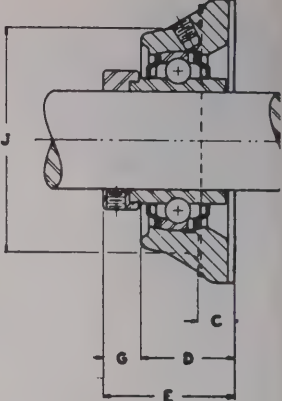
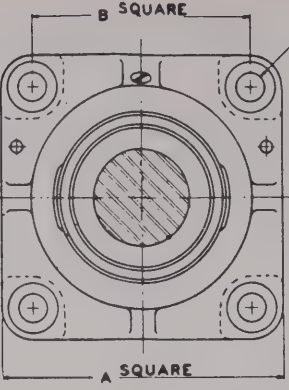
FAFNIR FLANGE CARTRIDGE



G-KLLB
Mechani-seal type



G-KRRB
Plya-seal type



When ordering specify shaft size and type. Example: LCJ-1-3/16 for Mechani-seal bearing equipped.
RCJ-1-3/16 for Plya-seal bearing equipped.

Shaft Dia. Inches	A	B	C	D	E	F	G	J
1/2	3	2 1/8	1 1/2	1 3/32	1 37/64	3/8	3 1/64	2 1/16
9/16	3	2 1/8	1 1/2	1 3/32	1 37/64	3/8	3 1/64	2 1/16
5/8	3	2 1/8	1 1/2	1 3/32	1 37/64	3/8	3 1/64	2 1/16
1 1/16	3	2 1/8	1 1/2	1 3/32	1 37/64	3/8	3 1/64	2 1/16
3/4	3 3/8	2 1/2	1 1/2	1 1/4	1 51/64	3/8	3 5/64	2 3/8
13/16	3 3/4	2 3/4	9/16	1 5/16	1 27/32	7/16	1 7/32	2 9/16
7/8	3 3/4	2 3/4	9/16	1 5/16	1 27/32	7/16	1 7/32	2 9/16
15/16	3 3/4	2 3/4	9/16	1 5/16	1 27/32	7/16	1 7/32	2 9/16
1	3 3/4	2 3/4	9/16	1 5/16	1 27/32	7/16	1 7/32	2 9/16
1 1/16	4 1/4	3 1/4	5/8	1 3/8	2	7/16	5/8	3
1 1/8	4 1/4	3 1/4	5/8	1 3/8	2	7/16	5/8	3
1 3/16	4 1/4	3 1/4	5/8	1 3/8	2	7/16	5/8	3
1 1/4	4 5/8	3 5/8	21/32	1 13/32	2 1/8	1/2	2 1/32	3 1/2
1 5/16	4 5/8	3 5/8	21/32	1 13/32	2 1/8	1/2	2 1/32	3 1/2
1 3/8	4 5/8	3 5/8	21/32	1 13/32	2 1/8	1/2	2 1/32	3 1/2
1 7/16	4 5/8	3 5/8	21/32	1 13/32	2 1/8	1/2	2 1/32	3 1/2
1 1/2	5 1/8	4	1 1/16	1 19/32	2 5/16	1/2	2 3/32	3 7/8
1 9/16	5 1/8	4	1 1/16	1 19/32	2 5/16	1/2	2 3/32	3 7/8
1 5/8	5 3/8	4 1/8	1 1/16	1 5/8	2 5/16	9/16	1 1/16	4 1/8
1 11/16	5 3/8	4 1/8	1 1/16	1 5/8	2 5/16	9/16	1 1/16	4 1/8
1 3/4	5 3/8	4 1/8	1 1/16	1 5/8	2 5/16	9/16	1 1/16	4 1/8
1 13/16	5 3/8	4 3/8	23/32	1 7/8	2 5/8	9/16	3/4	4 7/16
1 7/8	5 3/8	4 3/8	23/32	1 7/8	2 5/8	9/16	3/4	4 7/16
1 15/16	5 3/8	4 3/8	23/32	1 7/8	2 5/8	9/16	3/4	4 7/16
2	6 3/8	5 1/8	2 5/32	2	2 31/32	5/8	3 1/32	4 3/4
2 1/16	6 3/8	5 1/8	2 5/32	2	2 31/32	5/8	3 1/32	4 3/4
2 1/8	6 3/8	5 1/8	2 5/32	2	2 31/32	5/8	3 1/32	4 3/4
2 3/16	6 3/8	5 1/8	2 5/32	2	2 31/32	5/8	3 1/32	4 3/4
2 1/4	6 7/8	5 5/8	2 1/32	2 11/32	3 1/4	5/8	2 9/32	5 3/8
2 5/16	6 7/8	5 5/8	2 1/32	2 11/32	3 1/4	5/8	2 9/32	5 3/8
2 3/8	6 7/8	5 5/8	2 1/32	2 11/32	3 1/4	5/8	2 9/32	5 3/8
2 7/16	6 7/8	5 5/8	2 1/32	2 11/32	3 1/4	5/8	2 9/32	5 3/8
*2 11/16	7 3/8	5 7/8	2 3/32	2 5/8	3 1/2	1 1/16	7/8	5 7/8
2 13/16	7 3/4	6	7/8	2 5/8	3 25/32	3/4	1 5/32	6 3/8

HEAVY SERIES Type LCJO—Equipped with GN-KLLB Machine Units, see Page 217

When ordering, specify shaft size. Example: LCJO 1 7/16".

1 3/16	4 3/4	3 5/8	9/16	1 1/2	2 3/32	9/16	1 9/32	3 13/16
1 1/8	5 1/8	4	5/8	1 19/32	2 5/32	9/16	9/16	4 1/8
1 1/2	5 3/8	4 1/8	5/8	1 3/4	2 3/8	5/8	5/8	4 1/2
1 11/16	5 5/8	4 3/8	1 1/16	1 27/32	2 7/16	5/8	1 9/32	4 7/8
1 15/16	6 1/2	5 1/8	1 1/16	2 3/32	2 3/4	1 1/16	2 1/32	5 9/16
2 3/16	7	5 5/8	1 1/16	2 5/16	3	1 1/16	1 1/16	6 1/16
2 7/16	7 1/2	5 7/8	3/4	2 9/16	3 5/16	1 3/16	3/4	6 5/16
†2 11/16	8 7/8	7	7/8	2 27/32	3 11/16	1 5/16	2 7/32	7 5/16
†2 15/16	9 1/8	7 1/4	7/8	3 1/16	4 1/8	1 5/16	1 1/16	7 13/16

Recommended shaft tolerances: 1/2"-2"=Nominal to -.0005" †To be made as demand justifies tooling.
2 1/16"-2 15/16"=Nominal to -.0010".

*Not mechani-seal construction.

FAFNIR FLANGE CARTRIDGES

The LCJT and RCJT standard series flange cartridges are identical to the LCJ type except that they are constructed with only two bolt holes for mounting where space is restricted.

When ordering specify shaft size and type.

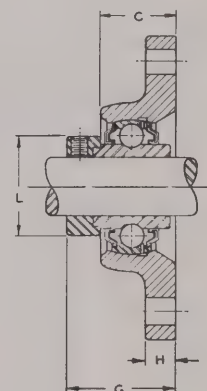
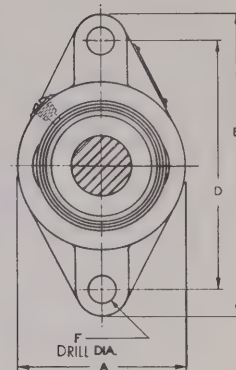
Example: LCJT-1-3/16 for Mechani-seal bearing equipped.

RCJT-1-3/16 for Plya-seal bearing equipped.

LCJT and RCJT TYPE

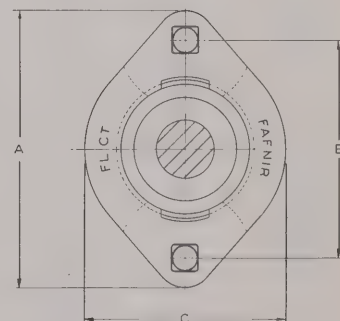
Shaft Diameter Inches	INCHES							
	A	B	C	D	F	G	H	L
* 1/2 9/16 5/8 11/16	2 3/8	4 13/32	1 1/4	3	25/64	1 43/64	7/16	1 1/8
* 3/4 13/16 7/8 15/16 *1	2 3/4	4 7/8	1 5/16	3 57/64	15/32	1 13/16	17/32	1 1/2
1 1/16 1 1/8 *1 3/16	3 1/8	5 9/16	1 3/8	4 19/32	29/64	2	17/32	1 3/4
*1 1/4 1 5/16 1 3/8 *1 7/16	3 5/8	6 1/8	1 15/32	5 1/8	33/64	2 1/8	9/16	2 3/16
*1 1/2 1 5/8 *1 11/16 1 3/4	4 1/8	6 3/4	1 11/16	5 21/32	33/64	2 5/16	9/16	2 3/8
1 5/8 *1 11/16 1 3/4	4 3/8	7 1/16	1 3/4	5 27/32	37/64	2 5/16	9/16	2 1/2
1 13/16 1 7/8 *1 15/16	4 9/16	7 7/16	1 7/8	6 3/16	37/64	2 5/8	9/16	2 3/4
2 2 1/16 2 1/8 *2 3/16	5	8 1/2	2	7 1/4	41/64	2 31/32	13/16	3

*Preferred sizes.



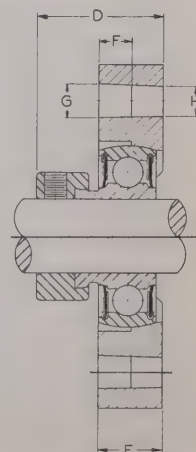
FLCT TYPE

Fafnir's FLCT Ball Bearing Cartridge lets you cut cost and still retain quality. It saves you the expense of "too much" housing, yet eliminates the risk of "too little." This versatile, rugged, cast-iron, low-cost Fafnir unit is specifically designed to provide sturdy shaft support—plus modern antifriction design—in minimum space, at minimum cost.



Shaft Diameter Inches	Bearing Used	INCHES							
		A	B	C	D	E	F	G sq.	H dia.
1/2 9/16 5/8	RA008NPPB RA009NPPB RA010NPPB	3 3/16	2 1/2	2 5/16	1 3/16	37/64	9/32	5/16	9/32
3/4	RA012NPPB	3 9/16	2 13/16	2 5/8	1 19/64	43/64	11/32	11/32	5/16
7/8 1 1/16 1	RA014NPPB RA015NPPB RA100NPPB	3 3/4	3	2 51/64	1 23/64	11/16	11/32	3/8	11/32
1 1/16 1 1/8 1 3/16 1 1/4*	RA101NPPB RA102NPPB RA103NPPB RA103NPPB2	4 7/16	3 9/16	3 5/16	1 33/64	13/16	13/32	7/16	13/32
1 1/4 1 5/16 1 3/8 1 7/16	RA104NPPB RA105NPPB RA106NPPB RA107NPPB	4 15/16	3 15/16	3 11/16	1 21/32	7/8	7/16	7/16	13/32

*When specifying 1 1/4" shaft size in this group, identify as FLCT5. When ordering, specify type and shaft diameter, i.e.: FLCT 1 1/4".

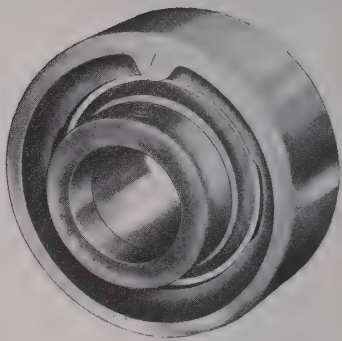


NEED HELP ON BEARINGS—CALL US

FAFNIR BALL BEARINGS
CYLINDRICAL CARTRIDGE—TYPES LC, RC, C AND CO

This application is readily adaptable to various types of machinery, requiring but little in the way of assembly. It is supplied and mounted as a unit, and fitted in a straight-bored housing with a push fit, a housing shoulder being recommended where possible. The Self-Aligning B Type Bearing compensates for any misalignment which may occur. Lubrication is provided by means of a grease plug.

In the smaller sizes the Fafnir Cylindrical or Plain Cartridge is furnished complete with Standard Series Wide Inner Ring Mechani-Seal or Plya-Seal Bearing and Collar. The Heavy Series design, known as Type CO, and larger sizes of the Standard Series (Type C) are supplied with separable steel caps instead of integral seals.



STANDARD SERIES (LC) (RC) (C)

Shaft Dia. Inches	A	B	C
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RC—LC Type—Fig. 1

Equipped with Mechani-Seal Bearing, Type G—LLB,
or Plya-Seal Bearing, Type G-KRRB

1/2	2 11/16	1 3/16	2 1/64
9/16	2 11/16	1 3/16	2 1/64
5/8	2 11/16	1 3/16	2 1/64
1 1/16	2 11/16	1 3/16	2 1/64
3/4	2 15/16	1 7/16	2 1/64
13/16	3 1/8	1 1/2	5/16
7/8	3 1/8	1 1/2	5/16
15/16	3 1/8	1 1/2	5/16
1	3 1/8	1 1/2	5/16
1 1/16	3 1/2	1 1/2	7/16
1 1/8	3 1/2	1 1/2	7/16
1 3/16	3 1/2	1 1/2	7/16
1 1/4	3 7/8	1 9/16	1/2
1 5/16	3 7/8	1 9/16	1/2
1 3/8	3 7/8	1 9/16	1/2
1 7/16	3 7/8	1 9/16	1/2
1 1/2	4 3/16	1 3/4	1/2
1 9/16	4 3/16	1 3/4	1/2
1 5/8	4 3/8	1 3/4	1/2
1 11/16	4 3/8	1 3/4	1/2
1 3/4	4 3/8	1 3/4	1/2
1 13/16	4 9/16	2 1/16	15/32
1 7/8	4 9/16	2 1/16	15/32
1 15/16	4 9/16	2 1/16	15/32
2	4 15/16	2 5/16	9/16
2 1/16	4 15/16	2 5/16	9/16
2 1/8	4 15/16	2 5/16	9/16
2 3/16	4 15/16	2 5/16	9/16
2 7/16	5 7/8	2 9/16	25/32

C Type—Fig. 2

Equipped with MU-B Machine Units

2 1/2	6 1/4	3 3/4	53/64
2 11/16	6 1/4	3 15/16	53/64
2 15/16	6 5/8	4 1/4	3/4
3 3/16	7	4 1/2	53/64
3 7/16	7 7/16	4 5/8	29/32
3 11/16	8 3/16	5 1/4	31/32
3 15/16	8 3/8	5 3/8	1 19/64

Recommended shaft tolerances; 1/2"–2" = Nominal to –.0005".
2 1/16"–3 15/16" = Nominal to –.0010".
Recommended Housing Bore:
Shaft Rotating—Nominal+.001+.003.
Shaft Stationary—Nominal+.000+.002.

HEAVY SERIES (CO)

Shaft Dia. Inches	A	B	C
3/4	3 1/8	2 1/8	15/32
13/16	3 5/8	2 3/8	15/32
7/8	3 5/8	2 3/8	15/32
15/16	3 5/8	2 3/8	15/32
1	3 5/8	2 3/8	15/32
1 1/16	3 7/8	2 9/16	1/2
1 1/8	3 7/8	2 9/16	1/2
1 3/16	3 7/8	2 9/16	1/2
1 1/4	4 3/16	2 3/4	31/64
1 5/16	4 3/16	2 3/4	31/64
1 3/8	4 3/16	2 3/4	31/64
1 7/16	4 3/16	2 3/4	31/64
1 1/2	4 9/16	3 1/8	19/32
1 9/16	4 9/16	3 1/8	19/32
1 5/8	4 15/16	3 7/16	5/8
1 11/16	4 15/16	3 7/16	5/8
1 3/4	4 15/16	3 7/16	5/8
1 13/16	5 7/8	3 11/16	21/32
1 7/8	5 7/8	3 11/16	21/32
1 15/16	5 7/8	3 11/16	21/32
2	6 1/4	3 7/8	45/64
2 1/16	6 1/4	3 7/8	45/64
2 1/8	6 1/4	3 7/8	45/64
2 3/16	6 1/4	3 7/8	45/64
2 1/4	6 5/8	4 1/8	11/16
2 5/16	6 5/8	4 1/8	11/16
2 3/8	6 5/8	4 1/8	11/16
2 7/16	6 5/8	4 1/8	11/16
2 1/2	7	4 1/2	3/4
2 15/16	7 13/16	5 3/8	1 1/4
3 3/16	8 3/16	5 7/16	1
3 7/16	9	6	1 1/8

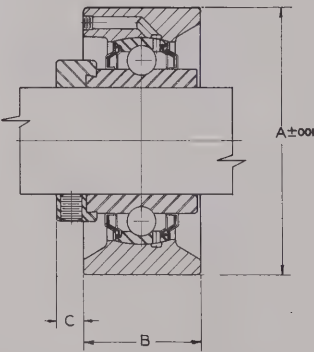


Fig. 1—LC Type
Use prefix RC for
Plya-Seal Type

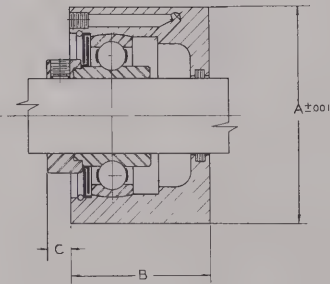
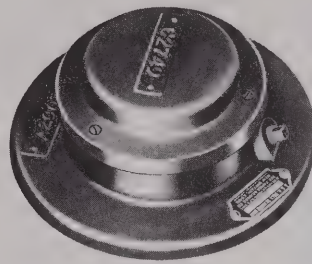


Fig. 2—C and CO Types

"CO" Series equipped with MUO-B Machine Units.

FAFNIR BALL BEARINGS MOTOR CARTRIDGE

MC Type



When ordering specify shaft size and whether closed or pulley end. Example: MC-1 $\frac{1}{16}$ " Closed End Type, or MC-1 $\frac{1}{16}$ " Pulley End Type.

Pulley End

Closed End

This unit is a flange cartridge developed particularly for electric motor applications.

The Motor Cartridge is furnished complete with Heavy Series Wide Inner Ring Bearing, Collar, Cap, and Wire. Designed to be bolted into the motor end-bell.

Provides a very satisfactory and economical mounting; and is particularly advantageous in the replacement of plain bearings with ball bearings, it being necessary simply to bore out the end-bell housing and bolt or weld the motor cartridge to it.

Shaft Diameter Inches	A	B	C	D	E	F +.000 -.005	G	H	J	K	L
$\frac{3}{4}$	2 $\frac{15}{16}$	3 $\frac{7}{32}$	2 $\frac{7}{32}$	2 $\frac{1}{2}$	2 $\frac{3}{32}$	3	5 $\frac{11}{16}$	3 $\frac{9}{16}$	$\frac{3}{8}$	$\frac{3}{8}$	1.8500
$\frac{13}{16}$	2 $\frac{15}{16}$	3 $\frac{7}{32}$	2 $\frac{7}{32}$	2 $\frac{1}{2}$	2 $\frac{3}{32}$	3	5 $\frac{11}{16}$	3 $\frac{9}{16}$	$\frac{3}{8}$	$\frac{3}{8}$	1.8500
$\frac{7}{8}$	2 $\frac{15}{16}$	3 $\frac{7}{32}$	2 $\frac{7}{32}$	2 $\frac{1}{2}$	2 $\frac{3}{32}$	3	5 $\frac{11}{16}$	3 $\frac{9}{16}$	$\frac{3}{8}$	$\frac{3}{8}$	1.8500
$\frac{15}{16}$	2 $\frac{15}{16}$	3 $\frac{7}{32}$	2 $\frac{7}{32}$	2 $\frac{1}{2}$	2 $\frac{3}{32}$	3	5 $\frac{11}{16}$	3 $\frac{9}{16}$	$\frac{3}{8}$	$\frac{3}{8}$	1.8500
1	2 $\frac{15}{16}$	3 $\frac{7}{32}$	2 $\frac{7}{32}$	2 $\frac{1}{2}$	2 $\frac{3}{32}$	3	5 $\frac{11}{16}$	3 $\frac{9}{16}$	$\frac{3}{8}$	$\frac{3}{8}$	1.8500
$1\frac{1}{16}$	3 $\frac{3}{32}$	3 $\frac{3}{8}$	2 $\frac{5}{16}$	2 $\frac{19}{32}$	2 $\frac{5}{32}$	3 $\frac{5}{16}$	6 $\frac{3}{8}$	4	$\frac{3}{8}$	$\frac{3}{8}$	1.9360
$1\frac{1}{8}$	3 $\frac{3}{32}$	3 $\frac{3}{8}$	2 $\frac{5}{16}$	2 $\frac{19}{32}$	2 $\frac{5}{32}$	3 $\frac{5}{16}$	6 $\frac{3}{8}$	4	$\frac{3}{8}$	$\frac{3}{8}$	1.9360
$1\frac{1}{4}$	3 $\frac{3}{32}$	3 $\frac{3}{8}$	2 $\frac{5}{16}$	2 $\frac{19}{32}$	2 $\frac{5}{32}$	3 $\frac{5}{16}$	6 $\frac{3}{8}$	4	$\frac{3}{8}$	$\frac{3}{8}$	1.9360
$1\frac{5}{16}$	3 $\frac{13}{32}$	3 $\frac{19}{32}$	2 $\frac{11}{16}$	2 $\frac{7}{8}$	2 $\frac{23}{32}$	3 $\frac{11}{16}$	6 $\frac{9}{16}$	4 $\frac{1}{4}$	$\frac{7}{16}$	$\frac{7}{16}$	2.0538
$1\frac{3}{8}$	3 $\frac{13}{32}$	3 $\frac{19}{32}$	2 $\frac{11}{16}$	2 $\frac{7}{8}$	2 $\frac{23}{32}$	3 $\frac{11}{16}$	6 $\frac{9}{16}$	4 $\frac{1}{4}$	$\frac{7}{16}$	$\frac{7}{16}$	2.0538
$1\frac{7}{8}$	3 $\frac{13}{32}$	3 $\frac{19}{32}$	2 $\frac{11}{16}$	2 $\frac{7}{8}$	2 $\frac{23}{32}$	3 $\frac{11}{16}$	6 $\frac{9}{16}$	4 $\frac{1}{4}$	$\frac{7}{16}$	$\frac{7}{16}$	2.0538
$1\frac{1}{2}$	3 $\frac{13}{32}$	3 $\frac{19}{32}$	2 $\frac{11}{16}$	2 $\frac{7}{8}$	2 $\frac{23}{32}$	3 $\frac{11}{16}$	6 $\frac{9}{16}$	4 $\frac{1}{4}$	$\frac{7}{16}$	$\frac{7}{16}$	2.0538
$1\frac{1}{2}$	3 $\frac{1}{2}$	3 $\frac{27}{32}$	2 $\frac{23}{32}$	3 $\frac{1}{16}$	2 $\frac{25}{32}$	4 $\frac{1}{8}$	7	4 $\frac{3}{4}$	$\frac{7}{16}$	$\frac{7}{16}$	2.2186
$1\frac{9}{16}$	3 $\frac{1}{2}$	3 $\frac{27}{32}$	2 $\frac{23}{32}$	3 $\frac{1}{16}$	2 $\frac{25}{32}$	4 $\frac{1}{8}$	7	4 $\frac{3}{4}$	$\frac{7}{16}$	$\frac{7}{16}$	2.2186
$1\frac{5}{8}$	3 $\frac{19}{32}$	3 $\frac{29}{32}$	2 $\frac{3}{4}$	3 $\frac{1}{16}$	2 $\frac{27}{32}$	4 $\frac{5}{8}$	7 $\frac{5}{8}$	5 $\frac{5}{16}$	$\frac{7}{16}$	$\frac{7}{16}$	2.2419
$1\frac{11}{16}$	3 $\frac{19}{32}$	3 $\frac{29}{32}$	2 $\frac{3}{4}$	3 $\frac{1}{16}$	2 $\frac{27}{32}$	4 $\frac{5}{8}$	7 $\frac{5}{8}$	5 $\frac{5}{16}$	$\frac{7}{16}$	$\frac{7}{16}$	2.2419
$1\frac{3}{4}$	3 $\frac{19}{32}$	3 $\frac{29}{32}$	2 $\frac{3}{4}$	3 $\frac{1}{16}$	2 $\frac{27}{32}$	4 $\frac{5}{8}$	7 $\frac{5}{8}$	5 $\frac{5}{16}$	$\frac{7}{16}$	$\frac{7}{16}$	2.2419
$1\frac{13}{16}$	3 $\frac{57}{64}$	4 $\frac{5}{32}$	2 $\frac{29}{64}$	2 $\frac{7}{8}$	1 $\frac{9}{32}$	5 $\frac{5}{16}$	8 $\frac{11}{16}$	5 $\frac{3}{4}$	$\frac{1}{2}$	$\frac{1}{2}$	2.1096
$1\frac{7}{8}$	3 $\frac{57}{64}$	4 $\frac{5}{32}$	2 $\frac{29}{64}$	2 $\frac{7}{8}$	1 $\frac{9}{32}$	5 $\frac{5}{16}$	8 $\frac{11}{16}$	5 $\frac{3}{4}$	$\frac{1}{2}$	$\frac{1}{2}$	2.1096
$1\frac{15}{16}$	3 $\frac{57}{64}$	4 $\frac{5}{32}$	2 $\frac{29}{64}$	2 $\frac{7}{8}$	1 $\frac{9}{32}$	5 $\frac{5}{16}$	8 $\frac{11}{16}$	5 $\frac{3}{4}$	$\frac{1}{2}$	$\frac{1}{2}$	2.1096
2	4 $\frac{25}{64}$	4 $\frac{5}{8}$	2 $\frac{45}{64}$	2 $\frac{15}{16}$	1 $\frac{11}{16}$	5 $\frac{23}{32}$	9 $\frac{3}{16}$	6 $\frac{1}{8}$	$\frac{1}{2}$	$\frac{1}{2}$	2.1958
$2\frac{1}{16}$	4 $\frac{25}{64}$	4 $\frac{5}{8}$	2 $\frac{45}{64}$	2 $\frac{15}{16}$	1 $\frac{11}{16}$	5 $\frac{23}{32}$	9 $\frac{3}{16}$	6 $\frac{1}{8}$	$\frac{1}{2}$	$\frac{1}{2}$	2.1958
$2\frac{1}{8}$	4 $\frac{25}{64}$	4 $\frac{5}{8}$	2 $\frac{45}{64}$	2 $\frac{15}{16}$	1 $\frac{11}{16}$	5 $\frac{23}{32}$	9 $\frac{3}{16}$	6 $\frac{1}{8}$	$\frac{1}{2}$	$\frac{1}{2}$	2.1958
$2\frac{3}{16}$	4 $\frac{25}{64}$	4 $\frac{5}{8}$	2 $\frac{45}{64}$	2 $\frac{15}{16}$	1 $\frac{11}{16}$	5 $\frac{23}{32}$	9 $\frac{3}{16}$	6 $\frac{1}{8}$	$\frac{1}{2}$	$\frac{1}{2}$	2.1958
$2\frac{1}{4}$	5 $\frac{1}{16}$	5 $\frac{3}{4}$	3 $\frac{3}{16}$	3 $\frac{7}{8}$	1 $\frac{7}{8}$	6 $\frac{3}{8}$	9 $\frac{1}{2}$	6 $\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	2.4384
$2\frac{5}{16}$	5 $\frac{1}{16}$	5 $\frac{3}{4}$	3 $\frac{3}{16}$	3 $\frac{7}{8}$	1 $\frac{7}{8}$	6 $\frac{3}{8}$	9 $\frac{1}{2}$	6 $\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	2.4384
$2\frac{3}{8}$	5 $\frac{1}{16}$	5 $\frac{3}{4}$	3 $\frac{3}{16}$	3 $\frac{7}{8}$	1 $\frac{7}{8}$	6 $\frac{3}{8}$	9 $\frac{1}{2}$	6 $\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	2.4384
$2\frac{1}{2}$	5 $\frac{1}{16}$	5 $\frac{3}{4}$	3 $\frac{3}{16}$	3 $\frac{7}{8}$	1 $\frac{7}{8}$	6 $\frac{3}{8}$	9 $\frac{1}{2}$	6 $\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	2.4384
$2\frac{1}{2}$	5 $\frac{3}{32}$	5 $\frac{5}{8}$	3 $\frac{13}{32}$	3 $\frac{15}{16}$	1 $\frac{11}{16}$	6 $\frac{5}{8}$	10 $\frac{3}{8}$	6 $\frac{7}{8}$	$\frac{9}{16}$	$\frac{9}{16}$	2.9620
$2\frac{11}{16}$	5 $\frac{11}{16}$	5 $\frac{7}{8}$	3 $\frac{5}{8}$	3 $\frac{13}{16}$	2 $\frac{1}{16}$	7 $\frac{3}{8}$	11 $\frac{1}{8}$	7 $\frac{5}{16}$	$\frac{9}{16}$	$\frac{9}{16}$	3.1733
$2\frac{15}{16}$	5 $\frac{39}{64}$	6 $\frac{3}{32}$	3 $\frac{29}{64}$	3 $\frac{15}{16}$	2 $\frac{5}{32}$	7 $\frac{3}{4}$	12 $\frac{3}{8}$	8 $\frac{1}{4}$	$\frac{11}{16}$	$\frac{11}{16}$	3.0096
3 $\frac{1}{16}$	5 $\frac{27}{32}$	6 $\frac{13}{32}$	3 $\frac{1}{2}$	4 $\frac{1}{16}$	2 $\frac{11}{32}$	8 $\frac{1}{16}$	13	9 $\frac{1}{4}$	$\frac{11}{16}$	$\frac{11}{16}$	3.0645
3 $\frac{1}{4}$	5 $\frac{63}{64}$	6 $\frac{17}{32}$	3 $\frac{49}{64}$	4 $\frac{5}{16}$	2 $\frac{7}{32}$	8 $\frac{1}{4}$	13 $\frac{3}{4}$	9	$\frac{3}{4}$	$\frac{3}{4}$	3.3227
3 $\frac{7}{16}$	6 $\frac{1}{32}$	6 $\frac{21}{32}$	3 $\frac{11}{16}$	4 $\frac{5}{16}$	2 $\frac{11}{32}$	9	14 $\frac{3}{8}$	10 $\frac{1}{16}$	$\frac{3}{4}$	$\frac{3}{4}$	3.4402

Recommended shaft tolerances: $\frac{3}{4}$ " - 2" = Nominal to -.0005". 2 $\frac{1}{16}$ " - 3 $\frac{1}{16}$ " = Nominal to -.0010".

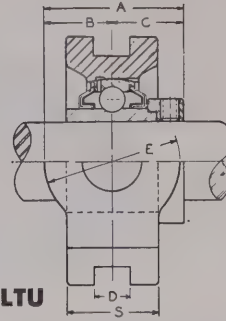
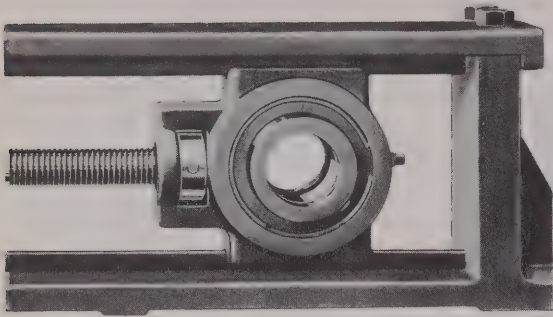
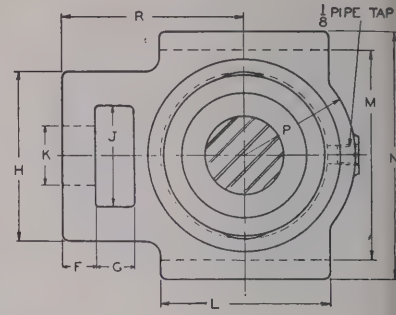
EQUIPPED WITH MUO-A MACHINE UNITS, see Page 216

NEED HELP ON BEARINGS—CALL US

FAFNIR CONVEYOR TAKE-UP UNITS

The LTU type uses G-KLLB (Mechani-Seal) bearings. The RTU type uses G-KRRB (Plya-Seal) bearings.

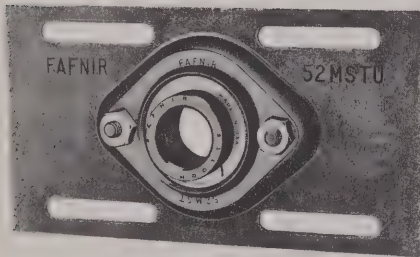
Fafnir Take-Up Frames are also available to fit these Take-Up Units. (See next page).

**TYPE LTU**

Order unit as LTU or RTU and shaft size. Example: LTU 1 $\frac{1}{16}$ ".

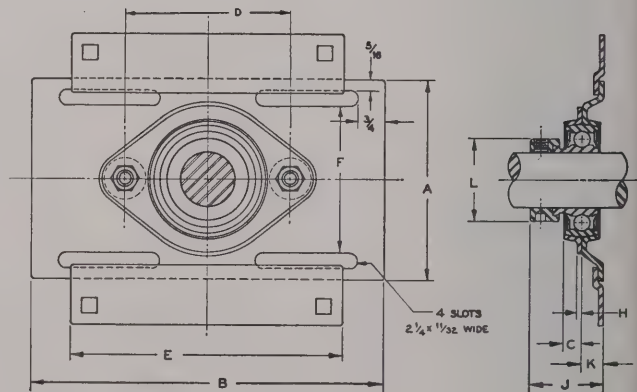
Shaft Diameter Inches	A	B	C	S	D	E	R	H	K	J	F	G	P	L	M	N
3/4	17/8	13/16	11/16	111/32	17/32	15/8	221/32	21/4	3/4	11/4	1/2	5/8	15/16	21/4	3	35/8
13/16, 7/8, 15/16, 1	115/16	7/8	11/16	115/32	17/32	13/4	221/32	21/4	3/4	11/4	1/2	5/8	13/8	21/4	3	35/8
11/16, 11/8, 13/16	23/16	1	13/16	11/2	17/32	2	227/32	21/4	7/8	17/16	1/2	5/8	15/8	21/2	31/2	41/8
11/4, 15/16, 13/8, 17/16	29/32	1	19/32	17/16	17/32	2	215/16	21/2	7/8	17/16	1/2	5/8	115/16	23/4	31/2	47/8
11/2, 19/16	221/32	19/32	13/8	13/4	11/16	29/16	315/32	31/4	11/8	115/16	5/8	3/4	23/32	31/4	331/32	43/4
15/8, 111/16, 13/4	221/32	19/32	13/8	13/4	11/16	29/16	315/32	31/4	11/16	115/16	5/8	3/4	23/32	31/4	331/32	43/4
113/16, 17/8, 15/16	225/32	19/32	11/2	115/16	11/16	29/16	319/32	33/4	13/8	115/16	5/8	3/4	211/32	33/8	331/32	43/4
2, 21/16, 21/8, 23/16	31/32	13/8	123/32	23/16	11/16	23/4	423/32	4	13/8	21/2	3/4	11/4	223/32	4	53/32	57/8
21/4, 25/16, 23/8, 27/16	37/32	13/8	127/32	23/16	11/16	23/4	423/32	4	13/8	21/2	3/4	11/4	223/32	4	53/32	57/8
*211/16	425/32	23/4	21/32	27/8	113/16	33/8	51/4	43/8	15/8	23/4	13/16	11/4	3	43/4	529/32	611/16
*215/16	47/8	223/32	25/32	215/16	113/16	33/8	51/4	43/8	15/8	23/4	13/16	11/4	33/16	43/4	529/32	611/16

*Not Mechani-Seal construction. Designated as TU 2 $\frac{1}{16}$ and TU 2 $\frac{1}{2}$.

PRESSED STEEL MSTU TYPE**ECONOMICAL****LIGHT DUTY****SELF ALIGNING**

A complete MSTU Take-Up Unit consists of base plate, stamping, and RA-NPPB bearing with collar.

Order unit as MSTU and shaft size. Example: MSTU 1 $\frac{1}{16}$ ".



Stamping Size*	Shaft Diameter Inches	Bearing Used	Collar Number	INCHES										Bolt Size Inches
				A	B	C	D	E	F	H	J	K	L	
52 MSTU	7/8 15/16 1	RA014NPPB RA015NPPB RA100NPPB	S1014K S1015K S1100K	41/8	8	11/32	3	41/2	213/16	.083	15/16	13/32	11/2	5/16
62 MSTU	11/16 11/8 13/16 11/4	RA101NPPB RA102NPPB RA103NPPB RA103NPPB2	S1101K S1102K S1103K S1103K3	41/4	8	11/32	39/16	6	33/16	.104	115/32	7/16	13/4	3/8

*Base plate can be ordered individually if specified as 52MSTU Base Plate only.

FAFNIR TAKE-UP FRAMES

NLTU Type

Pressed Steel

for Side Mounting

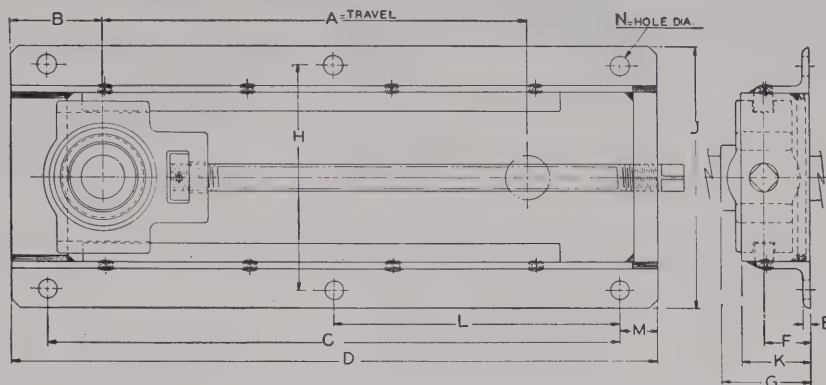
Incorporates LTU

or RTU

Take-Up Unit

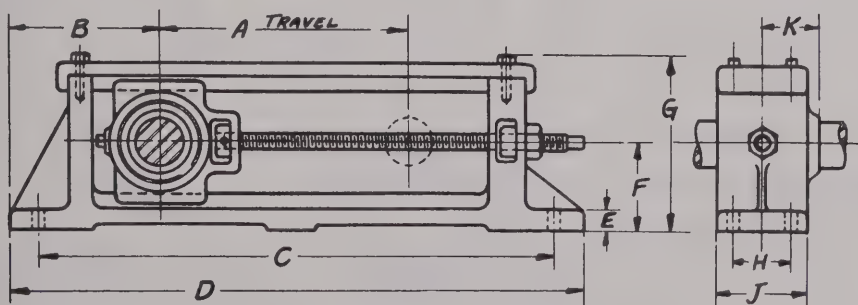
The LTU type uses G-KLLB (Mechani-Seal) bearings. The RTU type uses G-KRRB (Plya-Seal) bearings.

These Take-Up Unit Frames facilitate application of the Fafnir Take-Up Units to present conveyor installations. Simple but sturdy construction makes these frames ideal companion pieces to the standard Fafnir Take-Up Unit.



NLTU Frame No.	Shaft Diameter Inches	A	B	C	D	E	F	G	H	J	K	L	M	N	Bolts Required
1	$\frac{3}{4}$ $\frac{13}{16}$, $\frac{7}{8}$, $\frac{15}{16}$, 1	$9\frac{1}{8}$ $9\frac{1}{8}$	$21\frac{15}{32}$ $21\frac{15}{32}$	$12\frac{7}{8}$ $12\frac{7}{8}$	$14\frac{7}{8}$ $14\frac{7}{8}$	$\frac{3}{16}$ $\frac{3}{16}$	$11\frac{1}{16}$ $11\frac{1}{16}$	$2\frac{1}{8}$ $2\frac{1}{8}$	$5\frac{9}{16}$ $5\frac{9}{16}$	$6\frac{9}{16}$ $6\frac{9}{16}$	$1\frac{3}{4}$ $1\frac{3}{4}$	$6\frac{7}{16}$ $6\frac{7}{16}$	1 1	$\frac{1}{2}$ $\frac{1}{2}$	$6-\frac{7}{16}"$ $6-\frac{7}{16}"$
3	$1\frac{1}{16}$, $1\frac{1}{8}$, $1\frac{3}{16}$ $1\frac{1}{4}$, $1\frac{5}{16}$, $1\frac{3}{8}$, $1\frac{7}{16}$	$11\frac{7}{16}$ $11\frac{7}{16}$	$21\frac{17}{32}$ $21\frac{17}{32}$	$15\frac{7}{16}$ $15\frac{7}{16}$	$17\frac{7}{16}$ $17\frac{7}{16}$	$\frac{3}{16}$ $\frac{3}{16}$	$11\frac{1}{4}$ $11\frac{1}{4}$	$2\frac{7}{16}$ $2\frac{7}{16}$	$6\frac{1}{16}$ $6\frac{1}{16}$	$7\frac{9}{16}$ $7\frac{9}{16}$	2 2	$7\frac{23}{32}$ $7\frac{23}{32}$	1 1	$\frac{1}{2}$ $\frac{1}{2}$	$6-\frac{7}{16}"$ $6-\frac{7}{16}"$
5	$1\frac{1}{16}$, $1\frac{1}{8}$ $1\frac{5}{8}$, $1\frac{11}{16}$, $1\frac{3}{4}$ $1\frac{13}{16}$, $1\frac{7}{8}$, $1\frac{15}{16}$	$11\frac{3}{4}$ $11\frac{3}{4}$ $11\frac{3}{4}$	$32\frac{1}{32}$ $32\frac{1}{32}$ $31\frac{1}{32}$	$17\frac{1}{2}$ $17\frac{1}{2}$ $17\frac{1}{2}$	$19\frac{3}{4}$ $19\frac{3}{4}$ $19\frac{3}{4}$	$\frac{3}{16}$ $\frac{3}{16}$ $\frac{3}{16}$	$17\frac{1}{16}$ $17\frac{1}{16}$ $17\frac{1}{16}$	$21\frac{13}{16}$ $21\frac{13}{16}$ $21\frac{13}{16}$	$7\frac{5}{16}$ $7\frac{5}{16}$ $7\frac{5}{16}$	$8\frac{13}{16}$ $8\frac{13}{16}$ $8\frac{13}{16}$	$2\frac{1}{4}$ $2\frac{1}{4}$ $2\frac{1}{4}$	$8\frac{3}{4}$ $8\frac{3}{4}$ $8\frac{3}{4}$	$1\frac{1}{8}$ $1\frac{1}{8}$ $1\frac{1}{8}$	$\frac{9}{16}$ $\frac{9}{16}$ $\frac{9}{16}$	$6-\frac{1}{2}"$ $6-\frac{1}{2}"$ $6-\frac{1}{2}"$
7	2, $2\frac{1}{16}$, $2\frac{1}{8}$, $2\frac{3}{16}$ $2\frac{1}{4}$, $2\frac{5}{16}$, $2\frac{3}{8}$, $2\frac{7}{16}$	$14\frac{1}{4}$ $14\frac{1}{4}$	$32\frac{1}{32}$ $32\frac{1}{32}$	$21\frac{1}{2}$ $21\frac{1}{2}$	$23\frac{3}{4}$ $23\frac{3}{4}$	$\frac{3}{16}$ $\frac{3}{16}$	$11\frac{1}{2}$ $11\frac{1}{2}$	$3\frac{3}{32}$ $3\frac{11}{32}$	$8\frac{5}{8}$ $8\frac{5}{8}$	$10\frac{7}{16}$ $10\frac{7}{16}$	$2\frac{1}{2}$ $2\frac{1}{2}$	$10\frac{3}{4}$ $10\frac{3}{4}$	$1\frac{1}{8}$ $1\frac{1}{8}$	$\frac{5}{8}$ $\frac{5}{8}$	$6-\frac{9}{16}"$ $6-\frac{9}{16}"$

When ordering complete assembly, designate NLTU frame number and specify LTU or RTU Take-Up Unit required. Example: NLTU5 complete with LTU $1\frac{11}{16}"$. If frame only is required order by frame number. Example: NLTU3.



TU Type

Cast Iron

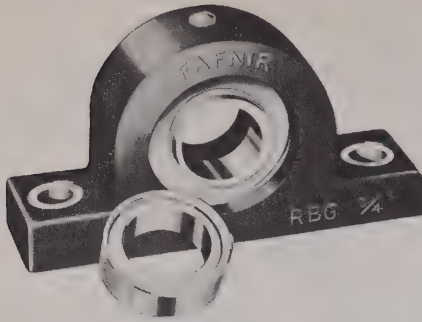
Incorporates LTU, RTU

and TU Take-Up

Units

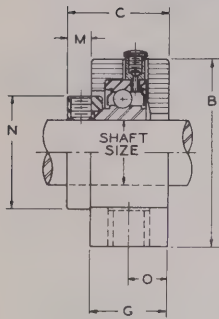
TU Frame Number	Shaft Diameter, Inches	A	B	C	D	E	F	G	H	J	K	Bolts Required
1	$\frac{3}{4}$	8	$4\frac{1}{2}$	$16\frac{1}{2}$	$18\frac{1}{2}$	$\frac{9}{16}$	$2\frac{1}{2}$	$5\frac{5}{32}$	$1\frac{3}{8}$	$2\frac{1}{8}$	...	$4-\frac{3}{8}"$
1	$1\frac{1}{16}$ - $\frac{7}{8}$ - $1\frac{5}{16}$ -1	8	$4\frac{1}{2}$	$16\frac{1}{2}$	$18\frac{1}{2}$	$\frac{9}{16}$	$2\frac{1}{2}$	$5\frac{5}{32}$	$1\frac{3}{8}$	$2\frac{1}{8}$	...	$4-\frac{3}{8}"$
3	$1\frac{1}{16}$ - $1\frac{1}{8}$ - $1\frac{3}{16}$	10	5	$19\frac{3}{8}$	$21\frac{3}{8}$	$\frac{5}{8}$	$2\frac{13}{16}$	$5\frac{7}{8}$	$1\frac{1}{2}$	$2\frac{9}{16}$	...	$4-\frac{1}{2}"$
3	$1\frac{1}{4}$ - $1\frac{5}{16}$ - $1\frac{3}{8}$ - $1\frac{7}{16}$	10	5	$19\frac{3}{8}$	$21\frac{3}{8}$	$\frac{5}{8}$	$2\frac{13}{16}$	$5\frac{7}{8}$	$1\frac{1}{2}$	$2\frac{9}{16}$	...	$4-\frac{1}{2}"$
5	$1\frac{1}{2}$ - $1\frac{9}{16}$	10	$5\frac{1}{2}$	$20\frac{7}{8}$	$22\frac{7}{8}$	$\frac{3}{4}$	$3\frac{1}{4}$	$6\frac{3}{4}$	2	$3\frac{1}{2}$	...	$4-\frac{1}{2}"$
5	$1\frac{5}{8}$ - $1\frac{11}{16}$ - $1\frac{3}{4}$	10	$5\frac{1}{2}$	$20\frac{7}{8}$	$22\frac{7}{8}$	$\frac{3}{4}$	$3\frac{1}{4}$	$6\frac{3}{4}$	2	$3\frac{1}{2}$	...	$4-\frac{1}{2}"$
5	$1\frac{13}{16}$ - $1\frac{7}{8}$ - $1\frac{15}{16}$	10	$5\frac{1}{2}$	$20\frac{7}{8}$	$22\frac{7}{8}$	$\frac{3}{4}$	$3\frac{1}{4}$	$6\frac{3}{4}$	2	$3\frac{1}{2}$	...	$4-\frac{1}{2}"$
7	2 - $2\frac{1}{16}$ - $2\frac{1}{8}$ - $2\frac{3}{16}$	12	$6\frac{5}{8}$	$25\frac{3}{8}$	$27\frac{7}{8}$	$\frac{7}{8}$	4	$8\frac{11}{32}$	$2\frac{1}{2}$	4	...	$4-\frac{5}{8}"$
7	$2\frac{1}{4}$ - $2\frac{5}{16}$ - $2\frac{3}{8}$ - $2\frac{7}{16}$	12	$6\frac{5}{8}$	$25\frac{3}{8}$	$27\frac{7}{8}$	$\frac{7}{8}$	4	$8\frac{11}{32}$	$2\frac{1}{2}$	4	...	$4-\frac{5}{8}"$
9	$2\frac{11}{16}$	12	$7\frac{7}{8}$	$27\frac{3}{8}$	$30\frac{3}{8}$	1	$4\frac{5}{8}$	$9\frac{19}{32}$	$3\frac{1}{4}$	$4\frac{3}{4}$	$2\frac{9}{16}$	$4-\frac{5}{8}"$
9	$2\frac{15}{16}$	12	$7\frac{7}{8}$	$27\frac{3}{8}$	$30\frac{3}{8}$	1	$4\frac{5}{8}$	$9\frac{19}{32}$	$3\frac{1}{4}$	$4\frac{3}{4}$	$2\frac{23}{32}$	$4-\frac{5}{8}"$

When ordering complete assembly, designate TU frame number and specify LTU or RTU Take-Up Unit required. Example: TU5 complete with LTU $1\frac{11}{16}"$. If frame only is required order by frame number. Example: TU3.



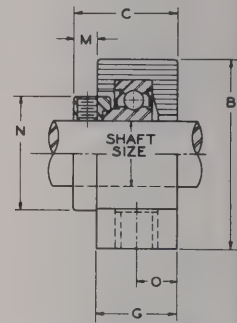
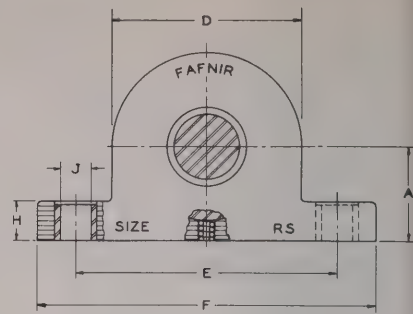
FAFNIR BALL BEARINGS SYNTHETIC RUBBER PILLOW BLOCKS RS-RSU-RBG-RBGU TYPE

These units are an economical light-duty ball bearing pillow block. The synthetic rubber housing insures absolute silence of operation, with ample capacity for normal loads. Where unusual conditions may require an occasional renewal of lubricant the housing may be obtained with a grease fitting inserted—Series RBG.

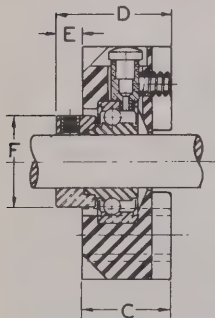
SERIES RBG**SERIES RBG
(with strap—RBGU)**

These blocks supplied and packed in pairs, one being fitted with ground spring.

Shaft Size	A	B	C	D	E	F	G	H	J	M	N
1/2	1 1/16	2 1/8	1 27/64	2 1/8	3 1/8	4 1/4	1 1/16	5/8	3 1/64	2 3/64	1 3/16
5/8	1 1/16	2 1/8	1 27/64	2 1/8	3 1/8	4 1/4	1 1/16	5/8	3 1/64	2 3/64	1 3/16
3/4	1 1/4	2 1/2	1 15/32	2 1/2	3 1/2	4 5/8	1 1/8	5/8	3 1/64	1 1/32	1 5/16
15/16	1 5/16	2 11/16	1 19/32	2 3/4	3 7/8	5	1 1/4	5/8	3 1/64	1 1/32	1 1/2
1	1 5/16	2 11/16	1 19/32	2 3/4	3 7/8	5	1 1/4	5/8	3 1/64	1 1/32	1 1/2
1 3/16	1 9/16	3 5/32	1 3/4	3 3/16	4 1/2	6	1 3/8	3/4	3 9/64	3/8	1 13/16

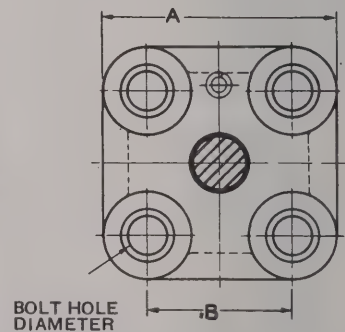
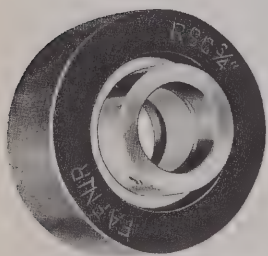
**SERIES RS
(with strap—RSU)**

Note: Where extra rigidity or support may be required, these Rubber Pillow Blocks can be supplied with a cadmium-plated steel strap bolted around the block. Specify as RBGU or RSU Type.

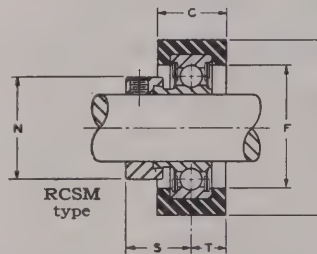
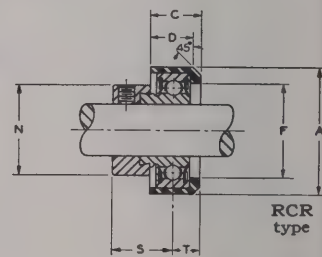
**TYPE RBGF**

SYNTHETIC RUBBER FLANGE CARTRIDGE

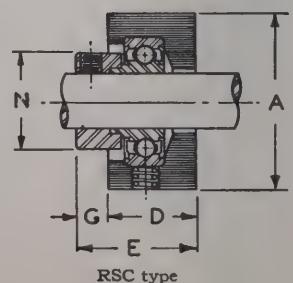
Shaft Size	A	B	C	D	E	F	Bolt Hole Dia.
3/4	3 1/8	2	1 7/32	1 9/16	1 1/32	1 5/16	2 3/64
15/16	3 3/8	2 1/4	1 7/16	1 25/32	1 1/32	1 1/2	3 1/64
1	3 3/8	2 1/4	1 7/16	1 25/32	1 1/32	1 1/2	3 1/64
1 3/16	3 3/4	2 1/2	1 17/32	1 29/32	3/8	1 13/16	3 1/64

**BOLT HOLE
DIAMETER**

RUBBER CYLINDRICAL CARTRIDGES RSC-RCSM-RCR TYPES

**RSCM
type****RCR
type**

Type	Shaft Size	A	C	D	E	F	G	N	S	T
RSC	3/4	2 1/2	...	1 1/8	1 15/32	...	1 1/32	1 5/16	...	...
	15/16	2 3/4	...	1 1/4	1 17/32	...	1 1/32	1 1/2	...	...
	1	2 3/4	...	1 1/4	1 17/32	...	1 1/32	1 1/2	...	...
RCSM	1/2	2 17/32	1	...	...	1 3/8	...	1 5/16	7/8	1 1/2
	5/8	2 17/32	1	...	...	1 3/8	...	1 5/16	7/8	1 1/2
	3/4	2 17/32	1	...	...	1 3/8	...	1 5/16	7/8	1 1/2
	15/16	2 17/32	1	...	...	1 3/8	...	1 5/16	7/8	1 1/2
	1	2 17/32	1	...	...	1 3/8	...	1 5/16	7/8	1 1/2
RCR	3/4	1 13/16	2 3/4	5/8	...	1 3/8	...	1 5/16	5 5/64	2 5/64
	1	2 1/4	2 3/4	1 1/16	...	1 3/4	...	1 1/2	5 5/64	2 5/64

**RSC type**

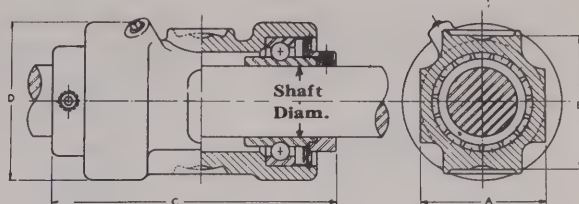
FAFNIR BALL BEARINGS LINESHAFT BOXES

TYPE F

Equipped with MU-A Machine Units, see Page 215

TYPE F

Shaft Diameter—Inches	A	B	C	D
$1\frac{3}{8}$ — $\frac{7}{8}$ — $1\frac{5}{8}$ —1	$2\frac{1}{16}$	$2\frac{1}{16}$	$4\frac{15}{16}$	$2\frac{9}{16}$
$1\frac{1}{8}$ —1— $1\frac{3}{8}$ — $1\frac{1}{2}$	$2\frac{1}{8}$	$2\frac{1}{8}$	$5\frac{5}{8}$	$2\frac{11}{16}$
$1\frac{1}{4}$ — $1\frac{1}{8}$ — $1\frac{3}{4}$ — $1\frac{7}{8}$	$2\frac{3}{8}$	$3\frac{1}{8}$	$6\frac{3}{8}$	$3\frac{3}{8}$
$1\frac{1}{2}$ — $1\frac{5}{8}$	$3\frac{1}{8}$	$3\frac{3}{8}$	$6\frac{3}{4}$	$3\frac{7}{8}$
$1\frac{5}{8}$ — $1\frac{1}{2}$ — $1\frac{3}{4}$	$3\frac{1}{2}$	$3\frac{3}{4}$	$6\frac{3}{4}$	4
$1\frac{13}{16}$ — $1\frac{7}{8}$ — $1\frac{15}{16}$	$3\frac{3}{8}$	$3\frac{3}{4}$	$7\frac{3}{8}$	$4\frac{5}{16}$
2 — $2\frac{1}{8}$ — $2\frac{1}{4}$ — $2\frac{3}{8}$	$3\frac{5}{8}$	$3\frac{7}{8}$	8	$4\frac{11}{16}$
$2\frac{1}{4}$ — $2\frac{1}{2}$ — $2\frac{3}{4}$ — $2\frac{7}{8}$	$4\frac{1}{8}$	$4\frac{1}{2}$	$8\frac{7}{8}$	$5\frac{1}{4}$
$2\frac{1}{2}$ — $2\frac{1}{2}$ — $2\frac{1}{2}$	$4\frac{3}{8}$	$4\frac{1}{2}$	$9\frac{1}{8}$	$5\frac{5}{8}$
$2\frac{5}{8}$ — $2\frac{1}{2}$	$4\frac{7}{8}$	5	10	$6\frac{1}{8}$
$3\frac{3}{16}$	$5\frac{1}{4}$	$5\frac{1}{4}$	11	$6\frac{9}{16}$
$3\frac{7}{16}$	$5\frac{3}{4}$	$6\frac{1}{8}$	$11\frac{7}{8}$	$7\frac{1}{8}$
$3\frac{11}{16}$	$6\frac{1}{8}$	$6\frac{1}{2}$	$12\frac{1}{8}$	8
$3\frac{15}{16}$	$6\frac{3}{8}$	$7\frac{1}{8}$	14	$8\frac{11}{16}$
$4\frac{3}{16}$	$6\frac{15}{16}$	$7\frac{3}{8}$	$14\frac{15}{16}$	9
$4\frac{7}{16}$	7	$8\frac{3}{8}$	$15\frac{3}{8}$	$9\frac{3}{8}$
$4\frac{11}{16}$	$8\frac{1}{4}$	$7\frac{3}{4}$	$16\frac{1}{16}$	$10\frac{3}{8}$



This box fits all standard four-point cast-iron or pressed-steel frames, and is especially adapted for replacing plain and roller bearing boxes. Two Standard Series Wide Inner Ring Bearings are used. No stationary part of a Fafnir Hanger Box comes in contact with the shaft, a feature which prevents the possibility of shaft scoring. The box aligns as a unit in the frame. Available also in the Heavy Series.

Dust-Seal Collars are furnished at a slight additional cost.

COUNTERSHAFT BOXES

TYPE SCS

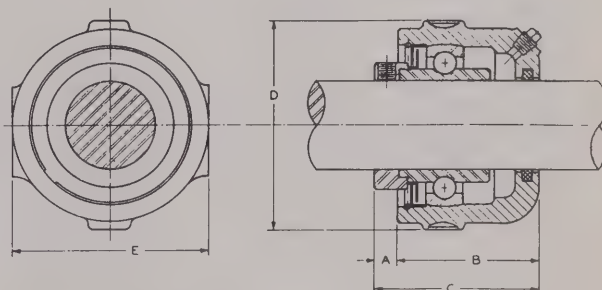
This unit uses a Standard Series Wide Inner Ring Bearing and is designed to fill the need for an efficient box for light drives and short centers where the double bearing lineshaft box is not required; it fits standard

four-point countershaft frames. Recommended applications of this box include small fans, countershafts for light machinery, etc.

Equipped with MU-B Machine Units, see Page 215

TYPE SCS

Shaft Diameter—Inches	A	B	C	D	E
$\frac{9}{16}$ — $\frac{5}{8}$ — $1\frac{1}{16}$	$\frac{3}{8}$	$1\frac{5}{8}$	2	$2\frac{3}{8}$	$2\frac{3}{8}$
$\frac{3}{4}$	$\frac{3}{8}$	2	$2\frac{3}{8}$	$2\frac{13}{16}$	$2\frac{1}{2}$
$1\frac{3}{16}$ — $\frac{7}{8}$ — $1\frac{5}{8}$ —1	$\frac{7}{16}$	2	$2\frac{11}{16}$	$2\frac{13}{16}$	$2\frac{1}{2}$
$1\frac{1}{2}$ — $1\frac{1}{8}$ — $1\frac{3}{4}$ — $1\frac{7}{8}$	$\frac{7}{16}$	$2\frac{1}{4}$	$2\frac{11}{16}$	$3\frac{3}{8}$	3
$1\frac{1}{4}$ — $1\frac{1}{8}$ — $1\frac{3}{4}$ — $1\frac{7}{8}$	$\frac{9}{16}$	$2\frac{9}{16}$	$3\frac{1}{8}$	$3\frac{3}{4}$	$3\frac{1}{2}$
$1\frac{1}{2}$ — $1\frac{5}{8}$	$\frac{17}{32}$	$2\frac{15}{16}$	$3\frac{11}{16}$	$4\frac{5}{16}$	4
$1\frac{5}{8}$ — $1\frac{1}{2}$ — $1\frac{3}{4}$	$\frac{1}{2}$	$2\frac{15}{16}$	$3\frac{1}{2}$	$4\frac{5}{16}$	4
$1\frac{13}{16}$ — $1\frac{7}{8}$ — $1\frac{15}{16}$	$\frac{9}{16}$	3	$3\frac{9}{16}$	$4\frac{9}{16}$	$4\frac{1}{4}$
2 — $2\frac{1}{16}$ — $2\frac{1}{8}$ — $2\frac{3}{16}$	$\frac{19}{32}$	$3\frac{5}{16}$	$3\frac{29}{32}$	$5\frac{1}{8}$	$4\frac{3}{4}$



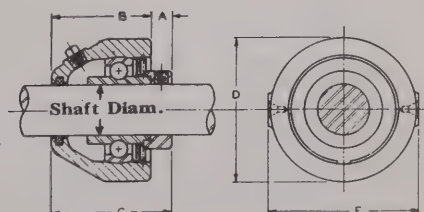
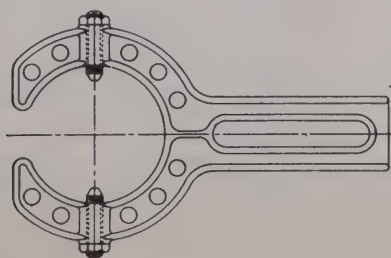
SEWING MACHINE BOXES

SINGLE — TYPE SSS

This unit (designed for light loads) fits all standard Singer and Wheeler & Wilson frames, and most other standard types of sewing machine frames. Since the Fafnir Box is interchangeable with plain bearing boxes in these frames, it may be used to replace plain bearings on machines already in use.

In addition to the Single—Type SSS, there is also available a Double—Type S which is recommended for heavy duty sewing machine applications and at the drive end.

Sewing Machine Bracket



Box No.	Shaft Dia. Inches	A	B	C	D	E
1SSS	$1\frac{5}{16}$	$\frac{9}{16}$	2	$2\frac{9}{16}$	$2\frac{7}{8}$	$3\frac{3}{16}$
2SSS	$1\frac{3}{16}$	$\frac{9}{16}$	$2\frac{1}{4}$	$2\frac{13}{16}$	$3\frac{3}{16}$	$3\frac{13}{16}$

Uses 1 Standard Series Bearing, MUB Machine Units, see Page 215.

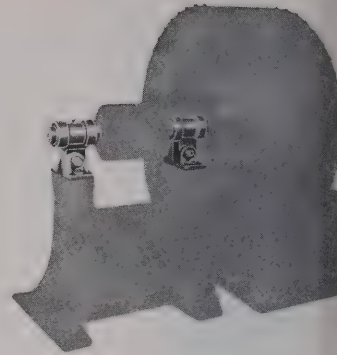
FAFNIR BALL BEARINGS FAN AND BLOWER BOXES

Fafnir Blower and Fan Boxes are available to fit nearly all makes of fans, including—

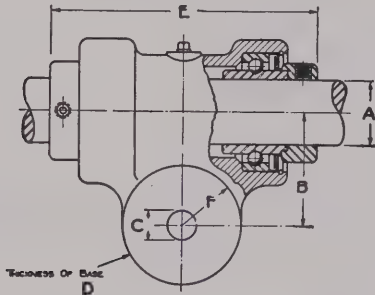
American Blower
Andrews & Goodrich
Bayley
Buffalo Forge
Carrier-York
Champion
Clarage
Garden City
B. F. Perkins
Phelps
Sterling
B. F. Sturtevant

Among the most widely used specialized applications of the Wide Inner Ring Bearing are Blower and Fan Boxes. These may be of the standard pillow block type or may be units specially designed to fit the various makes of fans and blowers.

The superiority of these boxes lies in their greater reliability and lower maintenance cost. They are long lived even though they may be called upon to operate continuously at high speeds or in dirty atmosphere; and their high thrust capacity and ability to take belt pull from any direction are particularly advantageous in fan service. Rated fan speed may likewise be more easily maintained with these ball bearing units.



IMPORTANT: In ordering always give make of fan, fan size and type and shaft size.



AMERICAN BLOWER COMPANY

Knee Type

Fafnir Draw. No.	A.B.C. Part No.	A (Shaft Dia. Inches)	B	C	D	E	F	Where Used
2087	SA-7215	$1\frac{1}{16}$	$1\frac{3}{8}$	$\frac{3}{8}$	$1\frac{11}{16}$	$3\frac{3}{8}$	$\frac{1}{2}$	No. 1 Type "V"
2088	SA-7216	$1\frac{3}{16}$	2	$\frac{1}{4}$	$1\frac{13}{16}$	$4\frac{1}{2}$	$\frac{5}{16}$	No. 2 Type "V"
2089	SA-7217	$1\frac{5}{16}$	$2\frac{1}{4}$	$\frac{1}{2}$	$1\frac{15}{16}$	$4\frac{11}{16}$	$\frac{3}{4}$	No. 3 Type "V"
2073	SA-7218	$1\frac{1}{16}$	$2\frac{1}{2}$	$\frac{1}{2}$	$1\frac{1}{16}$	$5\frac{5}{8}$	$\frac{3}{8}$	No. 2½ Sir.—No. 3 Press. Exh. No. 4 Type "V"
2074	SA-7220	$1\frac{3}{16}$	$2\frac{5}{16}$	$\frac{1}{2}$	$1\frac{3}{16}$	$5\frac{5}{8}$	$\frac{7}{8}$	No. 25 Type "E" and "C" Fans No. 5 Type "V"
2075	SA-7222	$1\frac{5}{16}$	3	$\frac{5}{8}$	$1\frac{5}{16}$	$5\frac{17}{32}$	1	No. 30 Type "E" and "C" Fans No. 3 Sir.—No. Press. Exh. No. 6 Type "V" (with Dim. "C" increased to $\frac{3}{4}$ ")
2076	SA-7225	$1\frac{7}{16}$	$3\frac{1}{4}$	$\frac{5}{8}$	$1\frac{7}{16}$	$6\frac{19}{32}$	$\frac{3}{8}$	No. 35 Type "E" and "C"—No. 3½ Sir. E No. 1 and 3 No. 30 Ex. Hvy. Single and Double "E" and "C" No. 3½ Sir.—No. 5 Press. Exh. No. 7 (Type "V" (with Dim. "H" increased to $\frac{3}{4}$ ")
2077	SA-7228	$1\frac{11}{16}$	$3\frac{1}{16}$	$\frac{3}{4}$	$2\frac{1}{16}$	7	$1\frac{1}{4}$	No. 40 Type "E" and "C" No. 35 Ex. Hvy. Single and Double "E" and "C" No. 4 Sir. E No. 1 and 3—No. 6 Press. Exh. No. 50 S.P.—No. 35 Type "E" with S.S. Wheel
2078	SA-7229	$1\frac{13}{16}$	4	$\frac{3}{4}$	$2\frac{1}{8}$	$7\frac{17}{32}$	$1\frac{1}{4}$	No. 45 Type "E" and "C"—No. 4½ Sir. E No. 1 and 3
2600	SA-7230	$1\frac{13}{16}$	$3\frac{1}{16}$	$\frac{3}{4}$	$2\frac{1}{8}$	$7\frac{17}{32}$	$1\frac{1}{4}$	No. 40 Ex. Hvy. Single and Double "E" and "C" No. 40 Type "E" with S.S. Wheel
2079	SA-7231	$1\frac{15}{16}$	$3\frac{5}{8}$	$\frac{3}{8}$	$2\frac{1}{8}$	$7\frac{17}{32}$	$1\frac{3}{8}$	No. 50 Type "E" and "C" 48" Ventura Mine Fan
2080	SA-7232	$2\frac{1}{16}$	$4\frac{1}{8}$	1	$2\frac{1}{8}$	$8\frac{13}{64}$	$1\frac{1}{2}$	No. 45 Ex. Hvy. Single and Double "E" and "C" No. 5 Sir. E—No. 1 and 3—No. 7 Press. Exh. No. 60 S.P.—No. 40 Type "E" with S.S. Wheel
2707	SA-7234 Special	$2\frac{1}{16}$	$3\frac{5}{8}$	$\frac{3}{8}$	$2\frac{1}{8}$	$8\frac{13}{64}$	$1\frac{1}{2}$	No. 55 Type "E"—No. 5½ Sir. E No. 1 and 3 54" Ventura Mine Fan
2081	SA-7233	$2\frac{3}{16}$	$4\frac{1}{8}$	1	$2\frac{1}{8}$	$8\frac{11}{64}$	$2\frac{1}{8}$	No. 50 Ex. Hvy. Single and Double "E" and "C" No. 50 Type "E" with S.S. Wheel
2082	SA-7235	$2\frac{1}{16}$	$3\frac{3}{4}$	$1\frac{1}{4}$	2	$9\frac{11}{16}$	2	No. 60 Type "E"—No. 55 Type "E" with S.S. Wheel 60" Ventura Mine Fan
2084	SA-7237	$2\frac{15}{16}$	$4\frac{3}{8}$	$1\frac{1}{2}$	$2\frac{1}{2}$	$12\frac{7}{64}$	$2\frac{3}{8}$	No. 55 Ex. Hvy. Single and Double "E" No. 6 Sir.—E No. 1 and 3 No. 7 Sir.—E No. 3—70 S.P.
2085	SA-7238	$3\frac{3}{16}$	$4\frac{3}{8}$	$1\frac{1}{2}$	$2\frac{1}{2}$	$11\frac{51}{64}$	$2\frac{3}{8}$	No. 60 Ex. Hvy. Double and Single "E" No. 8 Sir.—E No. 3—80 and 90 S.P.
2086	SA-7239	$3\frac{7}{16}$	$4\frac{3}{8}$	$1\frac{1}{2}$	3	$12\frac{61}{64}$	$2\frac{1}{2}$	No. 9 Sir.—E No. 3—120 S.P. 72" and 84" Ventura Mine Fan
								140 S.P.—No. 10 Sir. Fan E No. 3 160 and 180 S.P.—No. 11 Sir. Fan E No. 3 96" Ventura Mine Fan

Uses 2 Standard Series bearings, see Page 215.

FAFNIR BALL BEARINGS FAN AND BLOWER BOXES

BAYLEY BLOWER CO.

FAN		A (Shaft Dia. Inches)	B	C Drill Size	D	E	F	G	H	J	K	R Radius
Fafnir Draw. No.	Letter											
2006	00	1 ³ / ₁₆	2 ¹ / ₈	9 ¹ / ₁₆	2 ¹ / ₄	5 ⁵ / ₈	4 ³ / ₄	2 ³ / ₃₂	2	6 ¹ / ₈	3 ¹ / ₁₆	1 ¹ / ₄
2007	0	1 ⁵ / ₁₆	2 ³ / ₈	9 ¹ / ₁₆	2 ¹ / ₂	6 ¹ / ₃₂	5 ¹ / ₄	3 ³ / ₈	2 ¹ / ₈	7 ¹ / ₆₄	3 ³ / ₆₄	1 ³ / ₈
2104	A	1 ⁷ / ₁₆	2 ⁷ / ₈	11 ¹ / ₁₆	2 ³ / ₄	6 ¹ / ₃₂	5 ¹ / ₄	3 ³ / ₈	2 ¹ / ₄	7 ¹ / ₆₄	3 ³ / ₆₄	1 ¹ / ₂
2124	B	1 ⁷ / ₁₆	2 ⁷ / ₈	11 ¹ / ₁₆	2 ³ / ₄	6 ¹ / ₃₂	5 ¹ / ₄	3 ³ / ₈	2 ¹ / ₄	7 ¹ / ₆₄	3 ³ / ₆₄	1 ¹ / ₂
2008	C	1 ¹¹ / ₁₆	3	1 ⁵ / ₁₆	3	6 ⁹ / ₃₂	5 ⁹ / ₄	4	2 ¹ / ₂	7 ⁹ / ₁₆	4 ⁵ / ₁₆	1 ⁵ / ₈
2106	D	1 ¹¹ / ₁₆	3 ³ / ₈	1 ⁵ / ₁₆	3	6 ⁹ / ₃₂	5 ⁹ / ₄	4	3 ¹ / ₂	7 ⁹ / ₁₆	4 ⁵ / ₁₆	1 ⁵ / ₈
2101	E	1 ¹⁵ / ₁₆	3 ³ / ₈	1 ⁵ / ₁₆	3 ³ / ₈	7 ⁷ / ₃₂	6 ¹ / ₄	4 ⁵ / ₁₆	3	8 ³ / ₃₂	4 ¹ / ₄	1 ⁷ / ₈
2009	F	1 ¹⁵ / ₁₆	3 ³ / ₈	1 ⁵ / ₁₆	3 ³ / ₈	7 ⁷ / ₃₂	6 ¹ / ₄	4 ⁵ / ₁₆	3 ¹ / ₈	8 ³ / ₃₂	4 ¹ / ₄	1 ¹⁵ / ₁₆
2100	G	2 ³ / ₁₆	3 ³ / ₄	1 ⁷ / ₈	4	7 ¹⁵ / ₁₆	6 ³ / ₄	4 ¹¹ / ₁₆	2 ⁷ / ₈	8 ⁹ / ₁₆	4 ⁷ / ₈	2 ¹ / ₈
2010	NO	2 ⁵ / ₁₆	3 ¹ / ₄	1 ¹ / ₁₆	3 ¹ / ₂	9 ⁵ / ₁₆	8 ¹ / ₈	5 ¹ / ₄	3 ³ / ₄	10 ⁹ / ₁₆	5 ³ / ₄	2
2102	PQ	2 ⁷ / ₁₆	3 ¹ / ₂	1 ³ / ₁₆	3 ⁵ / ₈	9 ⁵ / ₁₆	8 ¹ / ₈	5 ¹ / ₄	3 ¹ / ₂	10 ⁹ / ₁₆	5 ³ / ₄	2 ¹ / ₈
2103	PQ	2 ⁹ / ₁₆	3 ¹ / ₂	1 ³ / ₁₆	3 ⁵ / ₈	10 ³ / ₁₆	8 ³ / ₄	5 ⁵ / ₈	3 ¹ / ₂	11 ⁷ / ₃₂	6 ¹ / ₈	2 ¹ / ₈
7811	R	2 ¹¹ / ₁₆	3 ³ / ₄	1 ³ / ₁₆	4	10 ³ / ₁₆	8 ³ / ₄	5 ⁵ / ₈	3 ¹ / ₂	11 ⁷ / ₃₂	6 ¹ / ₈	2 ¹ / ₄
2011	R	2 ¹⁵ / ₁₆	3 ³ / ₄	1 ³ / ₁₆	4	12 ¹ / ₈	10 ³ / ₄	6 ¹ / ₈	3 ¹ / ₂	13	6 ³ / ₄	2 ¹ / ₄
2011	S	2 ¹⁵ / ₁₆	3 ³ / ₄	1 ³ / ₁₆	4	12 ¹ / ₈	10 ³ / ₄	6 ¹ / ₈	3 ¹ / ₂	13	6 ³ / ₄	2 ¹ / ₄
7394	T	3 ³ / ₁₆	4 ¹ / ₄	1 ⁵ / ₁₆	4 ¹ / ₂	12 ¹⁷ / ₃₂	10 ⁷ / ₈	6 ⁹ / ₁₆	4 ¹ / ₈	13 ¹⁵ / ₁₆	6 ¹⁵ / ₁₆	2 ¹ / ₂
.....	U	3 ¹¹ / ₁₆	4 ³ / ₄	4 ⁵ / ₁₆	4 ¹ / ₂	12 ¹⁵ / ₁₆	10 ⁵ / ₈	8	4 ¹ / ₈	13 ¹⁵ / ₁₆	8 ¹ / ₄	2 ³ / ₂
.....	V	3 ¹⁵ / ₁₆	4 ⁷ / ₈	1 ⁷ / ₁₆	4 ³ / ₄	13 ³¹ / ₃₂	11 ³ / ₈	8 ¹¹ / ₃₂	4 ¹ / ₄	14 ¹⁵ / ₃₂	9	2 ¹ / ₁₆

Uses 2 Standard Series bearings.

BUFFALO FORGE CO.

Standard PMX and NC

BLOWER SIZE			Shaft Dia. Inches	A	C	D	E	F	G	J	K
Fafnir Draw. No.	PMX	NC									
3458	..	..	1 ⁵ / ₁₆	4 ¹ / ₂	2 ²⁷ / ₆₄	3 ¹ / ₂	4 ¹ / ₄	5 ³ / ₄	2 ¹ / ₂	5 ⁵ / ₈	3 ³ / ₄
2532	25	..	1 ⁵ / ₁₆	4 ¹ / ₂	3 ¹ / ₁₆	3 ³ / ₄	4 ¹ / ₄	5 ³ / ₄	2 ¹ / ₂	5 ⁵ / ₈	3 ³ / ₄
2523	30	3	1 ⁵ / ₁₆	5 ¹ / ₂	3 ¹⁵ / ₆₄	4 ¹ / ₄	4 ³ / ₄	6 ¹ / ₄	3	5 ⁵ / ₈	3 ³ / ₄
1733	35	3 ¹ / ₂	1 ⁷ / ₁₆	5 ¹ / ₂	3 ¹⁵ / ₆₄	4 ¹ / ₄	4 ³ / ₄	6 ¹ / ₄	3	5 ⁵ / ₈	3 ³ / ₄
2524	40	4	1 ¹¹ / ₁₆	6 ¹ / ₄	3 ¹⁵ / ₁₆	5 ¹ / ₈	5 ¹ / ₄	7	3 ¹ / ₂	5 ⁵ / ₈	1
2525	45	4 ¹ / ₂	1 ¹³ / ₁₆	7	4 ¹¹ / ₃₂	5 ¹ / ₂	6	7 ¹ / ₂	4	5 ³ / ₄	1
2526	50	5	1 ¹⁵ / ₁₆	7	4 ¹¹ / ₃₂	5 ¹ / ₂	6	7 ¹ / ₂	4	5 ³ / ₄	1
2591	55	5 ¹ / ₂	2 ¹ / ₁₆	7 ¹ / ₂	4 ³³ / ₆₄	6 ³ / ₁₆	7 ¹ / ₄	9 ¹ / ₄	5	7 ⁵ / ₈	1 ¹ / ₄
2569	60	6	2 ³ / ₁₆	7 ¹ / ₂	4 ³³ / ₆₄	6 ³ / ₁₆	7 ¹ / ₄	9 ¹ / ₄	5	7 ⁵ / ₈	1 ¹ / ₄
2533	70	..	2 ⁵ / ₁₆	8 ¹ / ₄	4 ¹³ / ₁₆	6 ¹ / ₂	8 ¹ / ₂	10 ³ / ₄	5 ¹ / ₄	1	1 ¹ / ₂
2162	80	..	2 ⁹ / ₁₆	8 ³ / ₄	5 ¹⁷ / ₃₂	7 ⁵ / ₈	8 ¹ / ₂	10 ³ / ₄	5 ¹ / ₄	1	1 ¹ / ₂

Slow Speed PMX

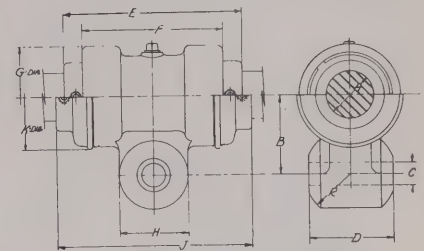
2532	25	..	1 ⁵ / ₁₆	5 ¹ / ₂	3 ¹⁵ / ₆₄	4 ¹ / ₄	4 ³ / ₄	6 ¹ / ₄	3	5 ⁵ / ₈	3 ³ / ₄
2523	30	..	1 ⁵ / ₁₆	5 ¹ / ₂	3 ¹⁵ / ₆₄	4 ¹ / ₄	4 ³ / ₄	6 ¹ / ₄	3	5 ⁵ / ₈	3 ³ / ₄
1733	35	..	1 ⁷ / ₁₆	5 ¹ / ₂	3 ¹⁵ / ₆₄	4 ¹ / ₄	4 ³ / ₄	6 ¹ / ₄	3	5 ⁵ / ₈	3 ³ / ₄
2524	40	..	1 ¹¹ / ₁₆	6 ¹ / ₄	3 ¹⁵ / ₁₆	5 ¹ / ₈	5 ¹ / ₄	7	3 ¹ / ₂	5 ⁵ / ₈	1
2525	45	..	1 ¹³ / ₁₆	7	4 ¹¹ / ₃₂	5 ¹ / ₂	6	7 ¹ / ₂	4	5 ³ / ₄	1
2526	50	..	1 ¹⁵ / ₁₆	7	4 ¹¹ / ₃₂	5 ¹ / ₂	6	7 ¹ / ₂	4	5 ³ / ₄	1
2591	55	..	2 ¹ / ₁₆	7 ¹ / ₂	4 ³³ / ₆₄	6 ³ / ₁₆	7 ¹ / ₄	9 ¹ / ₄	5	7 ⁵ / ₈	1 ¹ / ₄
2925	60	..	2 ³ / ₁₆	7 ¹ / ₂	4 ³³ / ₆₄	6 ³ / ₁₆	7 ¹ / ₄	9 ¹ / ₄	5	7 ⁵ / ₈	1 ¹ / ₄
2166	70	..	2 ⁵ / ₁₆	8 ¹ / ₄	4 ¹³ / ₁₆	6 ¹ / ₂	8 ¹ / ₂	10 ³ / ₄	5 ¹ / ₄	1	1 ¹ / ₂
2534	80	..	2 ⁹ / ₁₆	8 ³ / ₄	4 ¹³ / ₁₆	6 ¹ / ₂	8 ¹ / ₂	10 ³ / ₄	5 ¹ / ₄	1	1 ¹ / ₂

Uses 1 Heavy Series bearing

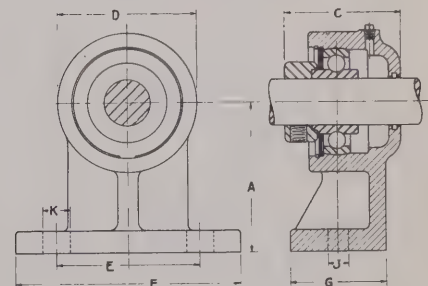
CLARAGE FAN CO.

FAN OR BLOWER NO.				Shaft Dia. Inches	A	B	C	D	E	F	H	K
Fafnir Draw. No.	S.P. Exh.	S.P. Blower	C Blower and Exh.									
4872	..	..	..	1 ¹¹ / ₁₆	2 ¹ / ₈	5	6	2 ¹ / ₄	2 ²⁹ / ₆₄	2 ¹ / ₂	1 ¹ / ₂	..
4482	..	..	..	1 ¹³ / ₁₆	2 ¹ / ₈	5	6	2 ¹ / ₄	2 ²⁷ / ₃₂	3 ¹ / ₂	1 ¹ / ₂	..
2189	..	..	..	1 ¹⁵ / ₁₆	2 ¹ / ₄	5 ¹ / ₄	6 ¹ / ₄	2 ¹ / ₂	3 ³ / ₃₂	3 ³ / ₄	1 ¹ / ₂	1 ¹ / ₂
2180	25	25	..	1 ¹⁷ / ₁₆	2 ³ / ₄	6	7 ¹ / ₂	3	3 ¹ / ₁₆	3 ³ / ₄	5 ⁵ / ₈	1 ¹ / ₂
2178	30	30	30	1 ¹⁹ / ₁₆	2 ⁷ / ₈	6 ¹ / ₄	8	3 ¹ / ₂	3 ¹⁵ / ₆₄	4 ¹ / ₄	5 ⁵ / ₈	1 ¹ / ₂
2178	..	35	..	1 ¹⁹ / ₁₆	2 ⁷ / ₈	6 ¹ / ₄	8	3 ¹ / ₂	3 ¹⁵ / ₆₄	4 ¹ / ₄	5 ⁵ / ₈	1 ¹ / ₂
2178	35	40	35	1 ¹⁹ / ₁₆	2 ⁷ / ₈	6 ¹ / ₄	8	3 ¹ / ₂	3 ¹⁵ / ₆₄	4 ¹ / ₄	5 ⁵ / ₈	1 ¹ / ₂
2175	40	45	40	1 ¹⁹ / ₁₆	3 ¹ / ₄	8 ³ / ₄	10 ³ / ₄	4	4	5 ¹ / ₈	5 ⁵ / ₈	1 ¹ / ₂
2175	..	50	..	1 ¹⁹ / ₁₆	3 ¹ / ₄	8 ³ / ₄	10 ³ / ₄	4	4	5 ¹ / ₈	5 ⁵ / ₈	1 ¹ / ₂
2179	45	55	45	1 ¹⁵ / ₁₆	3 ¹ / ₂	9 ³ / ₄	11 ³ / ₄	4	4 ¹¹ / ₃₂	5 ¹ / ₂	7 ⁵ / ₈	1 ¹ / ₂
2179	50	60	50	1 ¹⁵ / ₁₆	3 ¹ / ₂	9 ³ / ₄	11 ³ / ₄	4	4 ¹¹ / ₃₂	5 ¹ / ₂	7 ⁵ / ₈	1 ¹ / ₂
2176	55	..	60	2 ¹ / ₁₆	3 ³ / ₄	10 ³ / ₄	12 ³ / ₄	4 ¹ / ₂	4 ⁴⁹ / ₆₄	6 ³ / ₁₆	7 ⁵ / ₈	1 ¹ / ₂
2176	60	..	..	2 ³ / ₁₆	3 ³ / ₄	10 ³ / ₄	12 ³ / ₄	4 ¹ / ₂	4 ⁴⁹ / ₆₄	6 ³ / ₁₆	7 ⁵ / ₈	1 ¹ / ₂
2177	..	..	..	2 ⁵ / ₁₆	4	10 ³ / ₈	12 ³ / ₈	5	4 ¹⁵ / ₁₆	6 ³ / ₂	1	1 ¹ / ₂
4581	..	..	..	2 ¹¹ / ₁₆	4 ¹ / ₄	11	13	5	6 ³ / ₁₆	7 ⁵ / ₈	1	1 ¹ / ₂

Knee Type

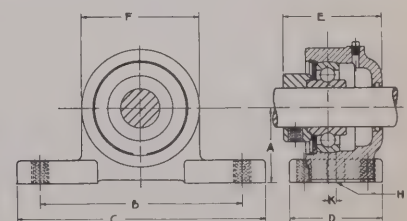


Single Pillow Block Type (Symbol SAON)



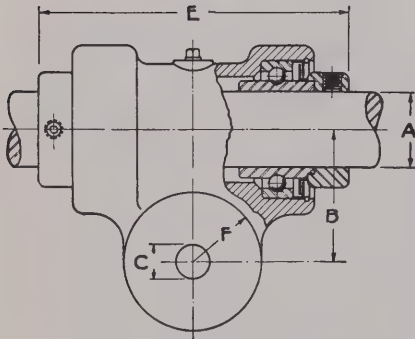
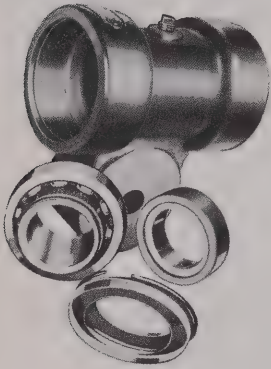
(Symbol SAOC)

Uses 1 Heavy Series bearing



FAFNIR BALL BEARINGS FAN AND BLOWER BOXES KNEE TYPE

B. F. STURTEVANT CO.



Thickness of Base

Slight variations from dimensions here given can usually be taken care of by adjustment of the knees. Where special machining is required, boxes machined to special dimensions can be furnished; in ordering these, give dimensions with the same lettering system as used in cut on this page:

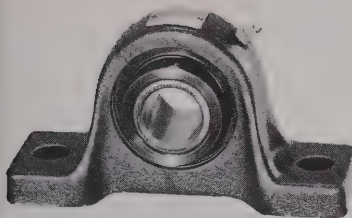
Example—A $2\frac{5}{16}$ "

Example—B $6\frac{1}{2}$ ", etc.

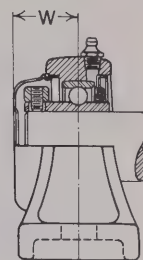
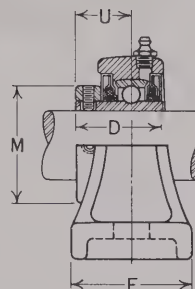
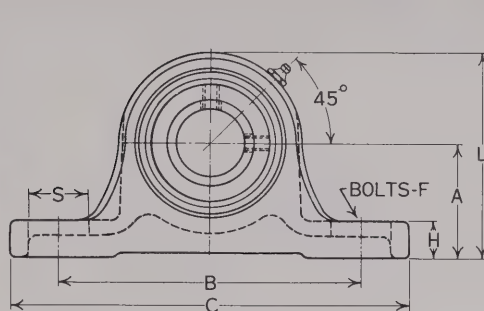
Uses 2 Standard Series bearings, see Page 215

Fafnir Draw. No.	A (Shaft Dia. In.)	B	C	D	E	F	Where Used
2055	$1\frac{3}{8}$	$2\frac{1}{2}$	.750 .752	$1\frac{3}{8}$	$5\frac{23}{32}$	$1\frac{3}{8}$	S.P.P.M. Des. No. 1 Size 30 all types. S.S.L.P.P.M. Des. No. 2 Size 30 all types. Cotton Exh. Size 30 all types and 35 D.B. Cotton Exh. Des. Nos. 1-2-3-4-5 and 6 Size 30 all types. Des. No. 1 Size 35 D.B. Cotton Exh. Des. No. 1 Size 35 B.H. Cotton Exh. Des. No. 1 Size 35 U.B. Mono. Blower Des. No. 2 Size 5—2 S. Hgrs. Mono. Blower Des. No. 2 Size 4—2 S. Hgrs. E.H. Gas Exh. Des. No. 2 Form M Size 3 E.H. Gas Blower Des. No. 2 Size 4—2 S. Hgrs.
2053	$1\frac{1}{2}$	$2\frac{5}{8}$	.750 .752	$1\frac{1}{2}$	$6\frac{45}{64}$	$1\frac{3}{4}$	S.P. Des. No. 1 Size 40 O.H.P.S.P.P.M. Des. No. 1 Size 35. S.S.L.P.P.M. Des. No. 2 Size 35. Cotton Exh. Des. No. 1 D.B. No. 40. Cotton Exh. Des. Nos. 3-4-5 and 6 Size 30 all types. Des. No. 1 Size 40 D.B. Cotton Exh. Des. No. 1 Size 40 B.H. E.H. Gas Exh. Des. No. 2 Form M Size No. 5 Cotton Exh. Des. No. 1 Size 40 U.B. S.P. Des. No. 1 Size 45 O.H.P. E.H. Gas Blower Des. No. 2 Size 5—2 S. Hgrs. Mono. Blower Des. No. 2 Size 6—2 S. Hgrs.
2054	$1\frac{11}{16}$	$3\frac{1}{8}$	.875 .877	$1\frac{1}{2}$	$6\frac{3}{4}$	$1\frac{3}{4}$	S.P.P.M. Des. No. 1 Size 40. S.S.L.P.P.M. Des. No. 2 Size 40. Cotton Exh. Des. No. 1 Size 45 U.B.—45-50 D.B. Cotton Exh. Des. No. 1 Size 45 U.B. and D.B. Size 50 D.B. Des. 3-4-5 and 6 Size 40 all types Cotton Exh. Des. No. 1 Size 50 B.H. and U.B. S.P. Des. No. 1 O.H.P. Size 50 and 55 Cotton Exh. Des. No. 1 Size 45 B.H. Cone Fan Size 30 E.H. Gas Blower Des. No. 2 Size 6—2 S. Hgrs. Mono. Blower Des. No. 2 Size No. 7—2 S. Hgrs.
2056	$1\frac{5}{8}$	$3\frac{3}{8}$	.875 .877	$1\frac{11}{16}$	$7\frac{25}{64}$	$1\frac{13}{16}$	S.P. Des. No. 1 O.H.W. Size 60 Single. S.P.P.M. Des. No. 1 Std. and Heavy Size 45 and 50—Size 45 S.P.E.H.—S.S.L.P.P.M. Des. No. 2 Size 45 and 50. Cotton Exh. Des. 3-4-5 and 6 Size 45 and 50 all types Size 42 Cone Fan S.P. Des. No. 1 Size 60 Double O.H.W. Size 36 Cone Fan S.P. Des. No. 1 O.H.P. Size 60 Mono. Exh. Des. No. 2 Size 7 Mono. Blower Des. No. 2 Size 9—2 S. Hgrs. Mono. Blower Des. No. 2 Size 8—2 S. Hgrs. E.H. Gas Blower Des. No. 2 Size 7—2 S. Hgrs.
2057	$2\frac{3}{8}$	$3\frac{1}{2}$	1.000 1.002	$1\frac{3}{4}$	$8\frac{29}{64}$	2	S.P.P.M. S.P.E.H. Single and Double Size 50 Des. No. 1 S.P.P.M. Des. No. 1 Std. and Heavy Single Size 55 and 60. Double Size 55 Des. No. 1. Size 55 and 60 all types. S.S.L.P.P.M. Des. No. 2 Mono. Exh. Des. No. 2 Size 8 S.P. Des. No. 1 O.H.W. Size 70 Double S.P. Des. No. 1 O.H.W. Size 70 Single Cone Fan Size 48 and 54. Mono. Blower Des. No. 2—2 Short Hgrs. Size 10. S.P. Des. No. 1 O.H.P. Size 70. E.H. Gas Exh. Des. No. 2 Form "M" Size 7 E.H. Gas Blower Des. No. 2—2 Short Hgrs. Size 8
2058	$2\frac{7}{16}$	$3\frac{13}{16}$	1.000 1.002	$1\frac{3}{4}$	$9\frac{5}{16}$	$2\frac{1}{8}$	S.P. Des. No. 1 O.H.W. Sizes 80 and 90. S.P.P.M. Des. No. 1 Std. and Heavy Size 70. S.P. Ex. Heavy Size 55. S.S.L.P.P.M. Des. No. 2 Size 70 S.P.P.M. Des. No. 1 Std. and Heavy Double Size 60 S.P. Des. No. 1 O.H.P. Size 100 Cone Fan Size 60 S.P. Des. No. 1 O.H.P. Sizes 80 and 90 Mono. Exh. Des. No. 2 Size 9 E.H. Gas Blower Des. No. 2—2 S. Hgrs. Size 9
2018	$2\frac{11}{16}$	$4\frac{1}{4}$	1.000 1.002	$1\frac{13}{16}$	$10\frac{3}{32}$	$2\frac{5}{8}$	Std. Pl. Des. No. 1 O.H.W. Single and Double Size 100 S.P.P.M. Des. No. 1 Std. and Heavy Single and Double Size 80 and 90. S.S.L.P.P.M. Des. No. 2 all types Size 80 S.P. Des. No. 1 O.H.P. Size 110. S.P. Des. No. 1 Steam F.H. and $\frac{3}{4}$ H. Size 100 and 110. Mono. Exh. Des. No. 2 Size 10 Cone Fan Size 66 E.H. Gas Exh. Des. No. 2 Form "M" Size 9 and 11 E.H. Gas Blower Des. No. 2—2 S. Hgrs. Size 10
2939	$2\frac{15}{16}$	$4\frac{7}{8}$	1.250 1.252	$2\frac{15}{16}$	$9\frac{63}{64}$	$2\frac{13}{16}$	S.P. Des. No. 1 O.H.P. Size 120. S.P. Des. No. 1 Steam $\frac{3}{4}$ H. Size 120 S.P. Des. No. 1 O.H.W. Single Size 110. S.P.P.M. Des. No. 1 Std. and Heavy Double Size 100. S.P. Ex. Heavy Size 70 S.S.L.P.P.M. Des. No. 2 Non. Con. Single and Double Size 90 S.P.P.M. Des. No. 1 S.P. Ex. Heavy Single and Double Size 60 S.P.P.M. Des. No. 1 Std. and Heavy Single Size 100 Cone Fan Size 72
2876	$3\frac{7}{16}$	$5\frac{1}{4}$	$1\frac{33}{64}$	$3\frac{7}{8}$	$11\frac{59}{64}$	$2\frac{13}{16}$	S.P. Des. 1 Ex. Heavy No. 110 O.H.W. S.P. Des. 1 Ex. Heavy No. 120 O.H.P. S.P. Des. 1 Std. No. 120 O.H.W. S.P. Des. 1 Std. No. 140 O.H.P. S.P. Des. 1 Steam F.H. Size 120. $\frac{3}{4}$ Hsg. Size 140 Cone Fan Size 84
2017	$3\frac{15}{16}$	$5\frac{7}{8}$	$1\frac{33}{64}$	$3\frac{7}{8}$	$13\frac{31}{32}$	$3\frac{3}{8}$	S.P. Des. 1 Steam F.H. Size 140 S.P.P.M. Exh. Des. 1 S.P. Ex. Heavy Single and Double Sizes 80-90-100 Cone Fan Size 96 S.P. Des. 1 O.H.P. Size 160 and 180 S.P. Des. 1 Steam $\frac{3}{4}$ Hg. Size 160 Cone Fan Size 108 Cone Fan Size 120
2877	5	$6\frac{3}{4}$	$1\frac{49}{64}$	5	$14\frac{87}{64}$	$3\frac{1}{2}$	S.P. Des. 1 Ex. Heavy No. 160 O.H.W. S.P. Des. 1 Ex. Heavy No. 180 O.H.P. S.P. Des. 1 Std. No. 200 O.H.W. S.P. Des. 1 Std. No. 220 O.H.P. S.P. Des. 1 Std. No. 240 O.H.P. S.P. Des. 1 Steam $\frac{3}{4}$ Hsg. Size 220

LINK-BELT BALL BEARING SELF-ALIGNING PILLOW BLOCKS



Integrally Sealed Bearing
One Piece Housing
Self-Aligning.



SERIES P2-200

Shaft Diameter Inches Δ	Pillow Block Number □	A	B	C	D	E	F	H	L	M	S	U	W
1 3/16	P2-219	2	5 1/2	7	1 9/16	1 15/16	1/2	1 1/16	3 11/16	2 3/32	3/4	6 1/64	1 7/32
1 7/16	P2-223	2 3/8	6 1/4	8 1/4	1 3/4	2 1/2	5/8	3/4	4 1/4	2 7/16	1 1/4	1 3/32	1 23/64
1 11/16	P2-227	2 3/8	6 5/8	8 1/4	2 1/8	2 3/8	5/8	3/4	4 9/16	2 7/8	1 1/4	1 17/64	1 35/64
1 15/16	P2-231	2 3/4	8 1/16	10 1/8	2 3/32	2 5/8	5/8	7/8	5	3 1/8	1 1/8	1 17/64	1 19/32
2 3/16	P2-235	3 1/8	8 7/8	11 3/8	2 1/4	3	5/8	7/8	5 5/8	3 1/2	1 1/8	1 13/32	1 47/64
2 7/16	P2-239	3 1/8	8 7/8	11 3/8	2 1/2	3	5/8	7/8	5 7/8	3 25/32	1 1/8	1 9/16	1 53/64

Δ Additional shaft sizes available: 1 1/8", 1 1/4", 1 3/8", 1 3/4", 2 1/8", 2 1/4".

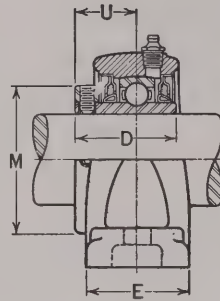
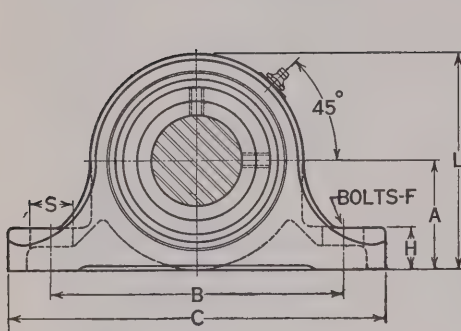
□ Foot is solid not cored.

SERIES P2-300

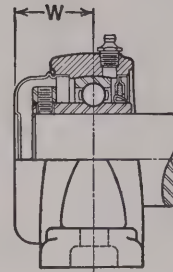
Shaft Diameter Inches	Pillow Block Number	A	B	C	D	E	F	H	L	M	S	U	W
7/8	P2-314	2	5 1/2	7	1 43/64	2	1/2	7/8	3 11/16	2	7/8	6 3/64	1 15/64
15/16	P2-315	2	5 1/2	7	1 43/64	2	1/2	7/8	3 11/16	2	7/8	6 3/64	1 15/64
1	P2-316	2	5 1/2	7	1 43/64	2	1/2	7/8	3 11/16	2	7/8	6 3/64	1 15/64
1 1/8	P2-318	2 3/8	6 5/8	8 1/4	1 59/64	2 3/8	1/2	7/8	4 5/16	2 5/16	1	1 9/64	1 13/32
1 3/8	P2-319	2 3/8	6 5/8	8 1/4	1 59/64	2 3/8	1/2	7/8	4 5/16	2 5/16	1	1 9/64	1 13/32
1 1/4	P2-320	2 3/4	8 1/4	10 1/8	2 3/32	2 3/4	5/8	15/16	4 7/8	2 9/16	1 1/8	1 1/4	1 1/2
1 5/8	P2-321	2 3/4	8 1/4	10 1/8	2 3/32	2 3/4	5/8	15/16	4 7/8	2 9/16	1 1/8	1 1/4	1 1/2
1 3/4	P2-322	2 3/4	8 1/4	10 1/8	2 3/32	2 3/4	5/8	15/16	4 7/8	2 9/16	1 1/8	1 1/4	1 1/2
1 7/8	P2-323	2 3/4	8 1/4	10 1/8	2 3/32	2 3/4	5/8	15/16	4 7/8	2 9/16	1 1/8	1 1/4	1 1/2
1 5/8	P2-326	3 1/8	9	11	2 19/32	3	5/8	1 3/16	5 3/4	3 1/4	1 1/8	1 35/64	1 27/32
1 11/16	P2-327	3 1/8	9	11	2 19/32	3	5/8	1 3/16	5 3/4	3 1/4	1 1/8	1 35/64	1 27/32
1 3/4	P2-328	3 1/8	9	11	2 19/32	3	5/8	1 3/16	5 3/4	3 1/4	1 1/8	1 35/64	1 27/32
1 15/16	P 331	3 1/8	8 7/8	11 1/8	2 13/16	3 1/8	5/8	1 3/8	6	3 7/16	1 1/8	1 43/64	1 31/32
2	P2-332	3 3/4	10 1/4	12 5/8	3 1/16	3 3/8	3/4	1 7/16	6 7/8	3 15/16	1 3/8	1 27/32	2 3/16
2 1/8	P2-334	3 3/4	10 1/4	12 5/8	3 1/16	3 3/8	3/4	1 7/16	6 7/8	3 15/16	1 3/8	1 27/32	2 3/16
2 3/8	P2-335	3 3/4	10 1/4	12 5/8	3 1/16	3 3/8	3/4	1 7/16	6 7/8	3 15/16	1 3/8	1 27/32	2 3/16
2 1/4	P2-336	4 1/8	11 1/4	13 3/4	3 5/16	4	3/4	1 1/2	7 1/2	4 3/16	1 3/8	1 15/16	2 7/16
2 7/16	P2-339	4 1/8	11 1/4	13 3/4	3 5/16	4	3/4	1 1/2	7 1/2	4 3/16	1 3/8	1 15/16	2 7/16
2 11/16	P2-343	4 9/16	12	14 13/16	3 13/16	4 3/8	7/8	1 3/4	8 7/16	4 3/4	1 3/8	2 1/4	2 5/8
2 3/4	P2-344	4 9/16	12	14 13/16	3 13/16	4 3/8	7/8	1 3/4	8 7/16	4 3/4	1 3/8	2 1/4	2 5/8
2 15/16	P2-347	4 9/16	12 3/8	15 3/8	4 3/32	4 3/8	7/8	1 7/8	8 11/16	4 15/16	1 3/8	2 3/8	2 3/4
3 3/16	P 351	4 9/16	12 3/4	15 3/8	4 13/32	4 5/8	7/8	1 15/16	8 7/8	5 11/16	1 3/8	2 13/32	3
3 7/16	P 355	5 1/8	12 7/8	16 1/8	4 15/16	5	1	2 1/4	9 7/8	6	1 5/8	2 29/32	3 9/32
3 11/16	P2-359	5 11/16	14 1/2	17 5/16	5 3/16	5 1/2	1	2 9/16	11 1/16	6 1/4	1 1/2	3 3/32	4 7/16
3 15/16	P 363	5 11/16	14 1/2	17 5/16	5 9/16	5 1/2	1	2 9/16	11 1/16	7	1 1/2	3 9/32	3 11/16

Lubrication fitting tap size: 1/8 PT.

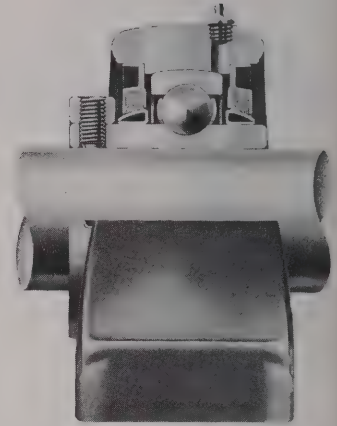
In ordering closed end (furnished at no extra charge) add suffix C, as P2-219C, and limit shaft extension to 1/8" beyond end of bearing.

LINK-BELT**BALL BEARING SELF-ALIGNING PILLOW BLOCKS****SOLID HOUSING, LIGHT SERIES P-200**

OPEN END



CLOSED END



Shaft diameter Δ	Pillow block number	Bearing assembly used *	A	B	C	D	E	F	H	L	M	S	U	W
$\frac{5}{8}$	P210	U210D	$1\frac{3}{16}$	$3\frac{1}{2}$	$4\frac{5}{8}$	$1\frac{3}{32}$	$1\frac{1}{2}$	$\frac{3}{8}$	$\frac{1}{2}$	$2\frac{11}{32}$	$1\frac{5}{16}$	$1\frac{1}{16}$	$4\frac{1}{64}$	$5\frac{7}{64}$
$\frac{11}{16}$	P211	U211D	$1\frac{3}{16}$	$3\frac{1}{2}$	$4\frac{5}{8}$	$1\frac{3}{32}$	$1\frac{1}{2}$	$\frac{3}{8}$	$\frac{1}{2}$	$2\frac{11}{32}$	$1\frac{5}{16}$	$1\frac{1}{16}$	$4\frac{1}{64}$	$5\frac{7}{64}$
$\frac{3}{4}$	P212	U212D	$1\frac{3}{16}$	$3\frac{7}{8}$	$5\frac{1}{8}$	$1\frac{9}{32}$	$1\frac{1}{2}$	$\frac{3}{8}$	$\frac{1}{2}$	$2\frac{3}{8}$	$1\frac{1}{2}$	$1\frac{1}{16}$	$3\frac{3}{4}$	1
$\frac{7}{8}$	P214	U214D	$1\frac{7}{16}$	4	$5\frac{3}{8}$	$1\frac{23}{64}$	$1\frac{5}{8}$	$\frac{3}{8}$	$\frac{9}{16}$	$2\frac{7}{8}$	$1\frac{3}{4}$	$1\frac{1}{16}$	$5\frac{5}{64}$	$1\frac{3}{64}$
$1\frac{5}{16}$	P215	U215D	$1\frac{7}{16}$	4	$5\frac{3}{8}$	$1\frac{23}{64}$	$1\frac{5}{8}$	$\frac{3}{8}$	$\frac{9}{16}$	$2\frac{7}{8}$	$1\frac{3}{4}$	$1\frac{1}{16}$	$5\frac{5}{64}$	$1\frac{3}{64}$
1	P216	U216D	$1\frac{7}{16}$	4	$5\frac{3}{8}$	$1\frac{23}{64}$	$1\frac{5}{8}$	$\frac{3}{8}$	$\frac{9}{16}$	$2\frac{7}{8}$	$1\frac{3}{4}$	$1\frac{1}{16}$	$5\frac{5}{64}$	$1\frac{3}{64}$
$1\frac{1}{8}$	P218	U218D	$1\frac{11}{16}$	$4\frac{5}{8}$	$6\frac{5}{16}$	$1\frac{9}{16}$	$1\frac{3}{4}$	$\frac{1}{2}$	$1\frac{1}{16}$	$3\frac{5}{16}$	$2\frac{3}{32}$	$1\frac{5}{16}$	$6\frac{1}{64}$	$1\frac{7}{32}$
$1\frac{3}{8}$	P219	U219D	$1\frac{11}{16}$	$4\frac{5}{8}$	$6\frac{5}{16}$	$1\frac{9}{16}$	$1\frac{3}{4}$	$\frac{1}{2}$	$1\frac{1}{16}$	$3\frac{5}{16}$	$2\frac{3}{32}$	$1\frac{5}{16}$	$6\frac{1}{64}$	$1\frac{7}{32}$
$1\frac{1}{4}$	P2E20	U2E20D	$1\frac{11}{16}$	$4\frac{5}{8}$	$6\frac{5}{16}$	$1\frac{9}{16}$	$1\frac{3}{4}$	$\frac{1}{2}$	$1\frac{1}{16}$	$3\frac{5}{16}$	$2\frac{3}{32}$	$1\frac{5}{16}$	$6\frac{1}{64}$	$1\frac{7}{32}$
$1\frac{3}{4}$	P220	U220D	$1\frac{7}{8}$	$4\frac{15}{16}$	$6\frac{3}{8}$	$1\frac{3}{4}$	$1\frac{7}{8}$	$\frac{1}{2}$	$1\frac{3}{16}$	$3\frac{3}{4}$	$2\frac{7}{16}$	$1\frac{3}{16}$	$1\frac{3}{32}$	$1\frac{23}{64}$
$1\frac{5}{8}$	P221	U221D	$1\frac{7}{8}$	$4\frac{15}{16}$	$6\frac{3}{8}$	$1\frac{3}{4}$	$1\frac{7}{8}$	$\frac{1}{2}$	$1\frac{3}{16}$	$3\frac{3}{4}$	$2\frac{7}{16}$	$1\frac{3}{16}$	$1\frac{3}{32}$	$1\frac{23}{64}$
$1\frac{3}{8}$	P222	U222D	$1\frac{7}{8}$	$4\frac{15}{16}$	$6\frac{3}{8}$	$1\frac{3}{4}$	$1\frac{7}{8}$	$\frac{1}{2}$	$1\frac{3}{16}$	$3\frac{3}{4}$	$2\frac{7}{16}$	$1\frac{3}{16}$	$1\frac{3}{32}$	$1\frac{23}{64}$
$1\frac{1}{2}$	P223	U223D	$1\frac{7}{8}$	$4\frac{15}{16}$	$6\frac{3}{8}$	$1\frac{3}{4}$	$1\frac{7}{8}$	$\frac{1}{2}$	$1\frac{3}{16}$	$3\frac{3}{4}$	$2\frac{7}{16}$	$1\frac{3}{16}$	$1\frac{3}{32}$	$1\frac{23}{64}$
$1\frac{5}{8}$	P224	U224D	2	$5\frac{3}{8}$	$7\frac{1}{4}$	$2\frac{1}{2}$	$2\frac{1}{8}$	$\frac{1}{2}$	$1\frac{3}{16}$	$4\frac{1}{16}$	$2\frac{11}{16}$	$1\frac{5}{16}$	$1\frac{11}{64}$	$1\frac{15}{32}$
$1\frac{1}{4}$	P226	U226D	$2\frac{1}{8}$	$5\frac{5}{8}$	$7\frac{1}{4}$	$2\frac{1}{2}$	$2\frac{1}{8}$	$\frac{1}{2}$	$1\frac{3}{16}$	$4\frac{1}{16}$	$2\frac{7}{8}$	$1\frac{5}{16}$	$1\frac{11}{64}$	$1\frac{15}{32}$
$1\frac{1}{2}$	P227	U227D	$2\frac{1}{8}$	$5\frac{5}{8}$	$7\frac{1}{4}$	$2\frac{1}{2}$	$2\frac{1}{8}$	$\frac{1}{2}$	$1\frac{3}{16}$	$4\frac{1}{16}$	$2\frac{7}{8}$	$1\frac{5}{16}$	$1\frac{11}{64}$	$1\frac{15}{32}$
$1\frac{3}{4}$	P228	U228D	$2\frac{1}{8}$	$5\frac{5}{8}$	$7\frac{1}{4}$	$2\frac{1}{2}$	$2\frac{1}{8}$	$\frac{1}{2}$	$1\frac{3}{16}$	$4\frac{1}{16}$	$2\frac{7}{8}$	$1\frac{5}{16}$	$1\frac{11}{64}$	$1\frac{15}{32}$
$1\frac{15}{16}$	P231	U231D	$2\frac{1}{4}$	$6\frac{1}{8}$	$9\frac{1}{8}$	$2\frac{3}{8}$	$2\frac{1}{4}$	$\frac{5}{8}$	$1\frac{7}{8}$	$4\frac{1}{2}$	$3\frac{1}{8}$	$1\frac{17}{64}$	$1\frac{19}{32}$	$1\frac{47}{64}$
2	P232	U232D	$2\frac{1}{2}$	$6\frac{3}{4}$	$9\frac{1}{8}$	$2\frac{1}{4}$	$2\frac{3}{8}$	$\frac{5}{8}$	1	5	$3\frac{1}{2}$	$1\frac{15}{16}$	$1\frac{13}{32}$	$1\frac{47}{64}$
$2\frac{1}{8}$	P234	U234D	$2\frac{1}{2}$	$6\frac{3}{4}$	$9\frac{1}{8}$	$2\frac{1}{4}$	$2\frac{3}{8}$	$\frac{5}{8}$	1	5	$3\frac{1}{2}$	$1\frac{15}{16}$	$1\frac{13}{32}$	$1\frac{47}{64}$
$2\frac{3}{16}$	P235	U235D	$2\frac{1}{2}$	$6\frac{3}{4}$	$9\frac{1}{8}$	$2\frac{1}{4}$	$2\frac{3}{8}$	$\frac{5}{8}$	1	5	$3\frac{1}{2}$	$1\frac{15}{16}$	$1\frac{13}{32}$	$1\frac{47}{64}$
$2\frac{1}{4}$	P236	U236D	$2\frac{11}{16}$	$7\frac{1}{2}$	$9\frac{1}{2}$	$2\frac{1}{2}$	$2\frac{1}{2}$	$\frac{5}{8}$	$1\frac{1}{8}$	$5\frac{7}{16}$	$3\frac{25}{32}$	$1\frac{1}{16}$	$1\frac{9}{16}$	$1\frac{53}{64}$
$2\frac{7}{16}$	P239	U239D	$2\frac{11}{16}$	$7\frac{1}{2}$	$9\frac{1}{2}$	$2\frac{1}{2}$	$2\frac{1}{2}$	$\frac{5}{8}$	$1\frac{1}{8}$	$5\frac{7}{16}$	$3\frac{25}{32}$	$1\frac{1}{16}$	$1\frac{9}{16}$	$1\frac{53}{64}$
$2\frac{1}{2}$	P240	U240D	3	$8\frac{1}{8}$	$10\frac{1}{2}$	$2\frac{11}{16}$	$2\frac{7}{8}$	$\frac{3}{4}$	$1\frac{5}{16}$	6	$4\frac{3}{16}$	$1\frac{3}{16}$	$1\frac{11}{16}$	$2\frac{3}{64}$
$2\frac{11}{16}$	P243	U243D	3	$8\frac{1}{8}$	$10\frac{1}{2}$	$2\frac{11}{16}$	$2\frac{7}{8}$	$\frac{3}{4}$	$1\frac{5}{16}$	6	$4\frac{3}{16}$	$1\frac{3}{16}$	$1\frac{11}{16}$	$2\frac{3}{64}$
$2\frac{3}{4}$	P244	U244D	$3\frac{1}{4}$	$8\frac{7}{8}$	$11\frac{3}{4}$	$2\frac{7}{8}$	$3\frac{1}{4}$	$\frac{3}{4}$	$1\frac{3}{8}$	$6\frac{1}{2}$	$4\frac{5}{8}$	$1\frac{13}{16}$	$1\frac{13}{16}$	$2\frac{13}{64}$
$2\frac{15}{16}$	P247	U247D	$3\frac{1}{4}$	$8\frac{7}{8}$	$11\frac{3}{4}$	$2\frac{7}{8}$	$3\frac{1}{4}$	$\frac{3}{4}$	$1\frac{3}{8}$	$6\frac{1}{2}$	$4\frac{5}{8}$	$1\frac{13}{16}$	$1\frac{13}{16}$	$2\frac{13}{64}$
3	P2E48	U2E48D	$3\frac{3}{4}$	$8\frac{7}{8}$	$11\frac{3}{4}$	$2\frac{7}{8}$	$3\frac{1}{4}$	$\frac{3}{4}$	$1\frac{3}{8}$	$6\frac{1}{2}$	$4\frac{5}{8}$	$1\frac{13}{16}$	$1\frac{13}{16}$	$2\frac{13}{64}$
$3\frac{7}{16}$	P255	U255D	$3\frac{3}{4}$	10	$15\frac{1}{4}$	$3\frac{3}{16}$	$3\frac{3}{4}$	$\frac{7}{8}$	$1\frac{5}{8}$	7	$5\frac{3}{16}$	$1\frac{5}{8}$	$2\frac{1}{8}$	$2\frac{1}{2}$
$3\frac{15}{16}$	P263	U263D	$4\frac{7}{16}$	$11\frac{7}{8}$	$11\frac{3}{4}$	$4\frac{1}{4}$	$4\frac{3}{8}$	$\frac{7}{8}$	$1\frac{7}{8}$	$8\frac{15}{16}$	$5\frac{15}{16}$	$1\frac{7}{8}$	$2\frac{37}{64}$	$3\frac{3}{64}$

Δ Additional shaft sizes available: $\frac{1}{2}$ ", $\frac{9}{16}$ ", $1\frac{1}{16}$ ", $1\frac{1}{8}$ ", $1\frac{1}{4}$ ", $1\frac{1}{2}$ ", $1\frac{3}{4}$ ", 2 ", $2\frac{1}{8}$ ", $2\frac{1}{4}$ ", $2\frac{3}{8}$ ", $3\frac{1}{4}$ ", 4 "

Bore Tolerances—Shaft Sizes $\frac{3}{8}$ " to $2\frac{3}{8}$ " = $+.0005$ "— $.0000$ "; $2\frac{1}{4}$ " to $2\frac{15}{16}$ " = $+.0006$ "— $.0000$ "; 3 " to $3\frac{15}{16}$ " = $+.0007$ "— $.0000$ ".

Blocks are supplied with grease fittings, are greased and ready for operation.

Lubrication fitting tap sizes: for 210 to 211 = $\frac{1}{4}$ -28 NF; for 212 to 263 = $\frac{1}{2}$ PT.

* Number Covers Bearing, Collar with Set-Screws and two Seals.

In ordering closed end (furnished at no extra charge) add suffix C, as P210C, and limit shaft extension to $\frac{1}{8}$ " beyond end of bearing.

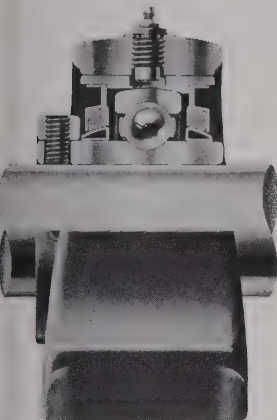
NEED HELP ON BEARINGS—CALL US

LINK-BELT

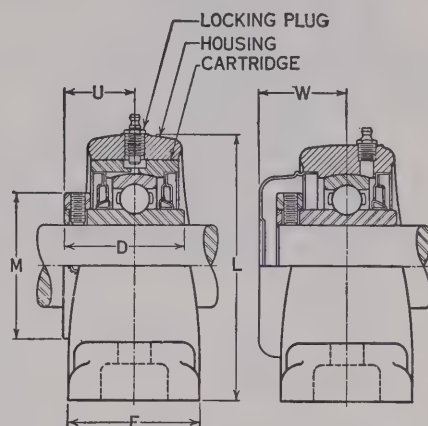
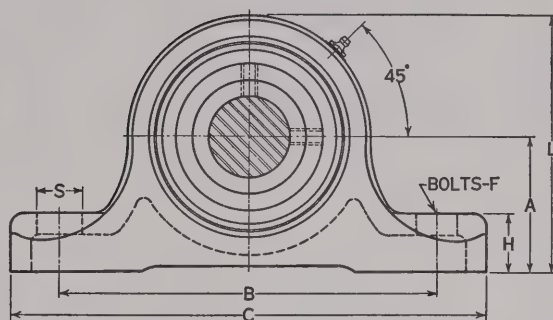
BALL BEARING SELF-ALIGNING PILLOW BLOCKS

SOLID HOUSING, MEDIUM SERIES P-300, PE-300

Fixed or Floating Types



Floating Type

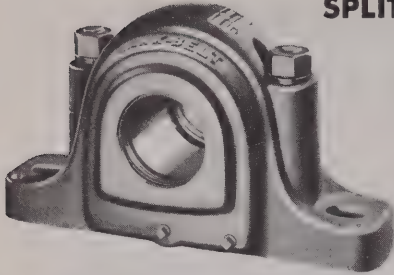
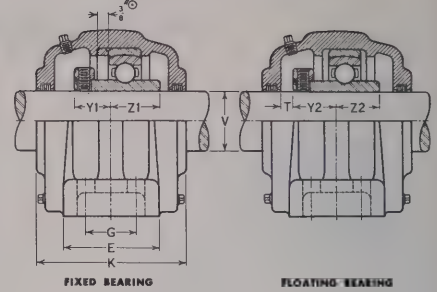
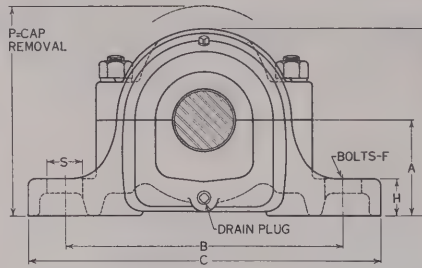


Floating Bearing
Open End

Fixed Bearing
Closed End

Shaft dia.	Model Number		Bearing assembly used *	A	B	C	D	E	F	H	L		M	S	U	W	Total axial float
	Fixed Type	Floating Type									with fixed bearing	with floating bearing					
5/8 1 1/16 3/4 7/8 1 1/8 1 1/16	P310 P311 P312 P314 P315	PE310 PE311 PE312 PE314 PE315	U310D U311D U312D U314D U315D	1 1/2 1 1/2 1 5/8 1 7/8 1 7/8	4 1/2 4 1/2 5 5 1/2 5 1/2	6 6 6 1/2 7 7	12 1/4 12 1/4 11 5/8 14 3/4 14 3/4	1 5/8 1 5/8 1 3/4 2 2	1/2 1/2 1/2 1/2 1/2	1 1/16 1 1/16 1 3/16 1 7/8 1 7/8	2 13/16 2 13/16 3 1/4 3 9/16 3 9/16	2 31/32 2 31/32 3 3/4 3 3/4 3 3/4	1 7/16 1 7/16 1 5/8 2 2	1 3/16 1 3/16 7/8 7/8 7/8	4 9/16 4 9/16 2 7/8 6 3/4 6 3/4	1 1 1 3/4 1 1/2 1 1/2	1/8 1/8 1/8 1/8 1/8
1 1 1/8 1 3/16 1 1/4 1 5/16	P316 P318 P319 P320 P321	PE316 PE318 PE319 PE320 PE321	U316D U318D U319D U320D U321D	1 7/8 2 1/8 2 1/8 2 3/8 2 3/8	5 1/2 6 7/16 6 7/16 7 3/8 7 3/8	7 8 1/4 8 1/4 9 1/4 9 1/4	14 3/4 15 9/16 15 9/16 2 3/2 2 3/2	2 2 1/4 2 1/4 2 1/2 2 1/2	1/2 1/2 1/2 5/8 5/8	7/8 1 5/16 1 5/16 1 1	3 9/16 4 1/4 4 1/4 4 1/2 4 1/2	3 23/32 4 1/4 4 1/4 4 23/32 4 23/32	2 2 5/16 2 5/16 2 9/16 2 9/16	7/8 1 1/16 1 1/16 1 1/8 1 1/8	6 3/4 1 9/16 1 9/16 1 1/4 1 1/4	1 15/16 1 13/32 1 13/32 1 1/2 1 1/2	1/8 1/8 1/8 3/16 3/16
1 3/8 1 1/16 1 1/2 1 5/8 1 11/16	P322 P323 P324 P326 P327	PE322 PE323 PE324 PE326 PE327	U322D U323D U324D U326D U327D	2 3/8 2 3/8 2 5/8 2 7/8 2 7/8	7 3/8 7 3/8 8 8 1/4 8 1/4	9 1/4 9 1/4 10 1/8 10 1/4 10 1/4	2 3/2 2 3/2 2 5/16 2 19/32 2 19/32	2 1/2 2 1/2 2 13/16 3 3	5/8 5/8 5/8 5/8 5/8	1 1 1 1/4 1 5/16 1 5/16	4 1/2 4 1/2 5 1/16 5 1/2 5 1/2	4 23/32 4 23/32 5 7/16 5 11/16 5 11/16	2 9/16 2 9/16 3 1/16 3 1/4 3 1/4	1 1/8 1 1/8 1 1/4 1 1/8 1 1/8	1 1/4 1 1/4 1 25/64 1 35/64 1 35/64	1 1/2 1 1/2 1 39/64 1 27/32 1 27/32	3/16 3/16 3/16 3/16 3/16
1 3/4 1 15/16 2 2 1/8 2 3/16	P328 P331 P332 P334 P335	PE328 PE331 PE332 PE334 PE335	U328D U331D U332D U334D U335D	2 7/8 3 1/8 3 1/2 3 1/2 3 1/2	8 1/4 8 7/8 10 1/4 10 1/4 10 1/4	10 1/4 11 3/8 12 5/8 12 5/8 12 5/8	2 19/32 2 19/32 3 1/16 3 1/16 3 1/16	3 3 1/8 3 3/8 3 3/8 3 3/8	5/8 5/8 3/4 3/4 3/4	1 5/16 1 3/8 1 1/2 1 1/2 1 1/2	5 1/2 6 6 5/8 6 5/8 6 5/8	5 11/16 6 3/16 6 13/16 6 13/16 6 13/16	3 1/4 3 7/16 3 15/16 3 15/16 3 15/16	1 1/8 1 1/8 1 1/4 1 1/4 1 1/4	1 35/64 1 43/64 1 27/32 1 27/32 1 27/32	1 27/32 1 31/32 2 3/16 2 3/16 2 3/16	3/16 3/16 3/16 3/16 3/16
2 1/4 2 1/16 2 1/2 2 11/16 2 3/4	P336 P339 P340 P343 P344	PE336 PE339 PE340 PE343 PE344	U336D U339D U340D U343D U344D	3 5/8 3 5/8 3 13/16 4 4	11 1/4 11 1/4 11 5/8 11 13/16 11 13/16	13 3/4 13 3/4 14 3/8 14 5/8 14 5/8	3 5/16 3 5/16 3 19/32 3 19/32 3 19/32	3 3/4 3 3/4 4 4 1/4 4 1/4	3/4 3/4 7/8 7/8 7/8	1 5/8 1 5/8 1 5/8 1 5/8 1 5/8	7 7 7 3/8 7 7/8 7 7/8	7 3/16 7 3/16 7 5/8 8 1/32 8 1/32	4 3/16 4 3/16 4 9/16 4 3/4 4 3/4	1 3/8 1 3/8 1 5/8 1 9/16 1 9/16	1 15/16 1 15/16 2 9/64 2 1/4 2 1/4	2 7/16 2 7/16 2 17/32 2 5/8 2 5/8	3/16 3/16 1/4 1/4 1/4
2 15/16 3 3 3/16 3 7/16 3 1/2	P347 P348 P351 P355 P356	PE347 PE348 PE351 PE355 PE356	U347D U348D U351D U355D U356D	4 1/4 4 9/16 4 9/16 5 1/8 5 1/8	12 12 1/4 12 1/4 12 7/8 12 7/8	15 1/8 15 3/8 15 3/8 16 1/8 16 1/8	4 3/32 4 13/32 4 13/32 4 15/16 4 15/16	4 1/2 4 5/8 4 5/8 5 5	7/8 7/8 7/8 1 1	1 3/4 1 15/16 1 15/16 2 1/4 2 1/4	8 3/8 8 7/8 8 7/8 9 7/8 9 7/8	8 17/32 9 7/32 9 7/32 10 1/4 10 1/4	4 15/16 5 11/16 5 11/16 6 6	1 5/8 1 5/8 1 5/8 1 5/8 1 5/8	2 3/8 2 3/8 2 19/32 2 29/32 2 29/32	2 3/4 3 3 3 3/32 3 3/32	1/4 3/8 3/8 3/8 3/8
3 11/16 3 15/16	P359 P363	PE359 PE363	U359D U363D	5 3/8 5 11/16	14 3/8 14 1/2	17 5/16 17 5/16	5 3/16 5 9/16	5 1/4 5 1/2	1 1	2 3/8 2 9/16	10 3/8 11 1/16	10 11/16 11 5/16	6 1/4 7	1 5/8 1 1/2	3 1/32 3 3/32	3 7/16 3 11/16	3/8 3/8

Bore Tolerances—Shaft Sizes 5/8" to 2 3/16" = +.0005"—.0000"; 2 1/4" to 3 3/8" = +.0006"—.0000"; 3 1/4" to 3 15/16" = +.0007"—.0000".
† When ordering closed end units add suffix "C" to model number. Example: P-310C.
Blocks are supplied with grease fittings, are greased and ready for operation. Lubrication fitting tap sizes: For P310 to 363 = 1/8" PT; For PE310 to 339 = 1/4"-28 NF;
For PE340 to 363 = 1/4" PT.
* Number Covers Bearing, Collar with Set-Screws and two Seals.

LINK-BELT BALL BEARING PILLOW BLOCKS**SPLIT HOUSING, FIXED OR FLOATING TYPES****WITH SPIRAL SEALS
FOR OIL LUBRICATION****LIGHT SERIES LP-200, LPE-200**

Shaft dia.	Pillow Block Number		Bearing Assembly Used	A	B	C	E	F*	H	K	L	P	S	T	Y1	Y2	Z1	Z2
	With Fixed Bearing	With Floating Bearing																
1 1/8	LP 218	LPE 218	UE 218A	2	6 1/8	7 5/8	2 1/4	1 1/2	7/8	3 1/16	3 13/16	5 1/4	3/4	25/64	41/64	49/64	59/64	81/64
1 1/16	LP 219	LPE 219	UE 219A	2	6 3/8	7 7/8	2 3/4	1 1/2	7/8	3 1/16	3 13/16	5 1/4	3/4	25/64	41/64	49/64	59/64	81/64
1 1/4	LP 220	LPE 220	UE 220A	2 1/4	6 13/16	8 1/2	2 3/8	1 1/2	7/8	3 1/16	4 5/16	5 1/8	15/16	25/32	27/32	1 1/8	1 1/8	1 1/8
1 1/16	LP 221	LPE 221	UE 221A	2 1/4	6 15/16	8 3/4	2 3/8	1 1/2	7/8	3 1/16	4 5/16	5 1/8	15/16	25/32	27/32	1 1/8	1 1/8	1 1/8
1 3/8	LP 222	LPE 222	UE 222A	2 3/4	6 15/16	8 3/4	2 3/8	1 1/2	7/8	3 1/16	4 5/16	5 1/8	15/16	25/32	27/32	1 1/8	1 1/8	1 1/8
1 7/16	LP 223	LPE 223	UE 223A	2 3/4	6 15/16	8 3/4	2 3/8	1 1/2	7/8	3 1/16	4 5/16	5 1/8	15/16	25/32	27/32	1 1/8	1 1/8	1 1/8
1 1/2	LP 224	LPE 224	UE 224A	2 3/8	7 1/4	8 7/8	2 3/8	1 1/2	1	3 7/8	4 5/8	6 3/16	7/8	29/64	49/64	61/64	1 1/16	1 1/16
1 5/8	LP 226	LPE 226	UE 226A	2 3/8	7 1/4	9	2 3/4	1 1/2	1	4	4 3/4	6 3/8	7/8	29/64	51/64	63/64	1 1/16	1 1/16
1 11/16	LP 227	LPE 227	UE 227A	2 3/8	7 1/4	9	2 3/4	1 1/2	1	4	4 3/4	6 3/8	7/8	29/64	51/64	63/64	1 1/16	1 1/16
1 3/4	LP 228	LPE 228	UE 228A	2 3/8	7 1/4	9	2 3/4	1 1/2	1	4	4 3/4	6 3/8	7/8	29/64	51/64	63/64	1 1/16	1 1/16
1 15/16	LP 231	LPE 231	UE 231A	2 3/4	7 15/16	10 3/8	2 3/4	5/8	1	4 1/8	5 5/8	7 1/2	15/16	29/64	55/64	1 1/4	1 1/4	1 1/4
2	LP 232	LPE 232	UE 232A	3	8 15/16	11 3/8	2 3/4	5/8	1 1/8	4 1/4	5 3/4	7 1/2	15/16	29/64	55/64	1 1/4	1 1/4	1 1/4
2 1/8	LP 234	LPE 234	UE 234A	3	8 15/16	11 3/8	2 3/4	5/8	1 1/8	4 1/4	5 3/4	7 1/2	15/16	29/64	55/64	1 1/4	1 1/4	1 1/4
2 1/16	LP 235	LPE 235	UE 235A	3	8 15/16	11 3/8	2 3/4	5/8	1 1/8	4 1/4	5 3/4	7 1/2	15/16	29/64	55/64	1 1/4	1 1/4	1 1/4
2 1/4	LP 236	LPE 236	UE 236A	3 1/8	9 1/8	11 1/2	3	5/8	1 1/8	4 3/8	6 3/8	8 5/8	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
2 7/16	LP 239	LPE 239	UE 239A	3 1/8	9 1/8	11 1/2	3	5/8	1 1/8	4 3/8	6 3/8	8 5/8	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
2 1/2	LP 240	LPE 240	UE 240A	3 1/2	10 5/16	13	3	5/8	1 1/4	4 15/16	6 15/16	9 1/8	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
2 11/16	LP 243	LPE 243	UE 243A	3 1/2	10 5/16	13	3	5/8	1 1/4	4 15/16	6 15/16	9 1/8	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
2 3/4	LP 244	LPE 244	UE 244A	3 3/4	10 1/2	13 1/8	3 1/4	5/8	1 1/4	5	7 1/16	9 3/4	1 3/8	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
2 15/16	LP 247	LPE 247	UE 247A	3 3/4	10 1/2	13 1/8	3 1/4	5/8	1 1/4	5	7 1/16	9 3/4	1 3/8	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
3 1/16	LP 255	LPE 255	UE 255A	4 1/4	11 7/8	14 3/4	3 3/8	7/8	1 1/2	5 15/16	8 3/4	11 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
3 15/16	LP 263	LPE 263	UE 263A	4 15/16	13 1/2	16 1/2	4	7/8	1 1/2	6 3/8	9 3/4	13 3/8	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2

*2 bolt base. †LPE218 thru LPE223 total axial movement is 1/4".

MEDIUM SERIES LP-300, LPE-300

Shaft dia.	Complete Pillow Block Number		Bearing Assembly Used	A	B	C	E	F	G	H	K	L	P	S	T	Y1	Y2	Z1	Z2
	With Fixed Bearing	With Floating Bearing																	
1 1/8	LP 318	LPE 318	UE 318A	2 1/8	6 3/4	8 3/4	2 3/8	1 1/2	...	7/8	3 15/16	4 1/4	5 15/16	7/8	29/64	49/64	61/64	1 5/16	31/16
1 1/16	LP 319	LPE 319	UE 319A	2 1/8	6 3/4	8 3/4	2 3/8	1 1/2	...	7/8	3 15/16	4 1/4	5 15/16	7/8	29/64	49/64	61/64	1 5/16	31/16
1 1/4	LP 320	LPE 320	UE 320A	2 3/8	7 5/8	9 3/4	2 3/8	5/8	...	1	4 1/16	4 11/16	6 5/16	1	15/32	7/8	1 1/16	1 7/8	1 1/8
1 1/16	LP 321	LPE 321	UE 321A	2 3/8	7 5/8	9 3/4	2 3/8	5/8	...	1	4 1/16	4 11/16	6 5/16	1	15/32	7/8	1 1/16	1 7/8	1 1/8
1 3/8	LP 322	LPE 322	UE 322A	2 3/8	7 5/8	9 3/4	2 3/8	5/8	...	1	4 1/16	4 11/16	6 5/16	1	15/32	7/8	1 1/16	1 7/8	1 1/8
1 7/16	LP 323	LPE 323	UE 323A	2 3/8	7 5/8	9 3/4	2 3/8	5/8	...	1	4 1/16	4 11/16	6 5/16	1	15/32	7/8	1 1/16	1 7/8	1 1/8
1 1/2	LP 324	LPE 324	UE 324A	2 3/8	8	10 1/8	2 3/8	5/8	...	1	4 5/16	5 3/8	7 1/16	1 1/4	29/64	61/64	1 3/16	1 7/8	1 11/16
1 5/8	LP 326	LPE 326	UE 326A	2 7/8	8 3/8	10 1/8	2 3/8	5/8	...	1 1/8	4 5/8	5 3/8	7 1/16	1 1/4	29/64	1 7/8	1 11/16	1 7/8	1 11/16
1 11/16	LP 327	LPE 327	UE 327A	2 7/8	8 3/8	10 1/8	2 3/8	5/8	...	1 1/8	4 5/8	5 3/8	7 1/16	1 1/4	29/64	1 7/8	1 11/16	1 7/8	1 11/16
1 3/4	LP 328	LPE 328	UE 328A	2 7/8	8 3/8	10 1/8	2 3/8	5/8	...	1 1/8	4 5/8	5 3/8	7 1/16	1 1/4	29/64	1 7/8	1 11/16	1 7/8	1 11/16
1 15/16	LP 331	LPE 331	UE 331A	3 1/8	8 15/16	11 3/8	3 1/8	5/8	...	1 1/8	4 15/16	6 1/8	8 5/8	1 1/2	27/64	1 15/16	1 7/8	1 3/4	1 31/32
2	LP 332	LPE 332	UE 332A	3 1/8	10 5/16	13	3 1/8	5/8	...	1 1/4	5 1/16	6 3/4	9 3/32	1 1/2	27/64	1 11/16	1 7/8	1 3/4	1 31/32
2 1/8	LP 334	LPE 334	UE 334A	3 1/2	10 5/16	13	3 1/8	5/8	...	1 1/4	5 1/16	6 3/4	9 3/32	1 1/2	27/64	1 11/16	1 7/8	1 3/4	1 31/32
2 1/16	LP 335	LPE 335	UE 335A	3 1/2	10 5/16	13	3 1/8	5/8	...	1 1/4	5 1/16	6 3/4	9 3/32	1 1/2	27/64	1 11/16	1 7/8	1 3/4	1 31/32
2 3/4	LP 336	LPE 336	UE 336A	3 3/8	11	13 3/4	3 1/2	5/8	...	1 1/2	5 1/16	7 1/16	9 25/32	1 1/2	27/64	1 15/16	1 7/8	1 3/4	1 31/32
2 7/16	LP 339	LPE 339	UE 339A	3 5/8	11	13 3/4	3 3/8	3/4	...	1 5/16	5 7/16	7 3/16	9 25/32	1 1/2	27/64	1 15/16	1 7/8	1 3/4	1 31/32
2 1/2	LP 340	LPE 340	UE 340A	3 7/8	11 15/16	14 3/8	3 3/8	3/8	...	1 5/16	5 3/4	7 3/8	9 15/16	1 1/2	27/64	1 15/16	1 7/8	1 3/4	1 31/32
2 11/16	LP 343	LPE 343	UE 343A	4	11 11/16	14 3/8	3 3/8	3/8	...	1 5/16	5 3/4	7 3/8	9 15/16	1 1/2	27/64	1 15/16	1 7/8	1 3/4	1 31/32
2 3/8	LP 344	LPE 344	UE 344A	4	11 11/16	14 3/8	3 3/8	3/8	...	1 5/16	5 3/4	7 3/8	9 15/16	1 1/2	27/64	1 15/16	1 7/8	1 3/4	1 31/32
2 15/16	LP 347	LPE 347	UE 347A	4 1/4	12 3/8	15 1/2	4 3/8	3/8	...	1 1/2	6 1/4	8 7/16	11 1/16	1 5/8	27/64	1 7/8	2 1/16	2 1/8	2 1/4
3 5/16	LP 351F	LPE 351F	UE 351A	4 5/8	12 3/4	15 3/4	4 3/8	7/8	2 1/4	1 5/8	6 3/8	9 1/4	12 1/2	1 5/8	27/64	2 1/8	2 1/8	2 3/8	2 3/4
3 7/16	LP 355F	LPE 355F	UE 355A	5 1/8	13 11/16	16 3/4	5 3/8	7/8	2 3/4	1 5/8	7 1/8	10 1/2	13 3/8	1 5/8	27/64	2 3/8	2 3/8	2 3/4	2 3/4
3 11/16	LP 359F	LPE 359F	UE 359A	5 3/8	14 13/16	18 1/8	5 3/8	1	3 1/16	1 7/8	7 1/2	10 1/2	14 13/32	1 11/16	27/64	2 3/8	2 3/8	2 3/4	2 3/4
3 15/16	LP 363F	LPE 363F	UE 363A	5 11/16	15 15/16	19	6	1	3 3/8	1 7/8	8	11 1/4	15 1/16	1 15/16	27/64	2 3/8	2 3/8	2 3/4	2 3/4

Total axial movement of floating bearing is 3/4" (width of C-spacer).
 When ordering closed end units add suffix "C" to model number.
 Suffix "F" in model numbers designates four-bolt base.
 Add suffix T1 to the block number if oil cup is to be furnished. Example: LP218T1.

Lubrication fitting tap sizes:
 for 218 to 231 = 1/8 PT;
 for 232 to 247 = 1/4 PT;
 for 255 to 263 = 3/8 PT.

for 318 to 324 = 1/8 PT;
 for 326 to 344 = 1/4 PT;
 for 347 to 363 = 3/8 PT.

LINK-BELT

ROLLER BEARING SELF-ALIGNING PILLOW BLOCKS

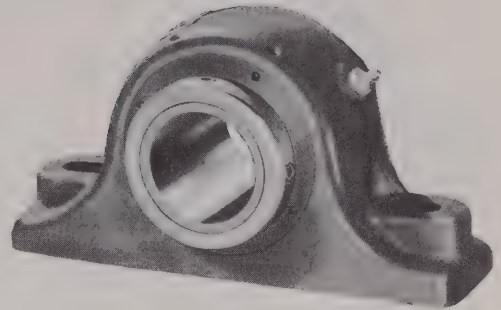
SERIES P2-400 AND PK2-400

Series P2-400 Roller Bearing Pillow Blocks require a minimum amount of support space. Cored slotted bolt holes in the machined base permit easy adjustment on supporting structure.

Blocks are furnished with labyrinth type seals which effectively keep grease in and prevent entry of dirt. For extremely dusty or dirty operating conditions or where installation on a vertical shaft makes retention of lubricant difficult Felt-Neoprene Seals are recommended, designated by suffix A, as P2-420 A.

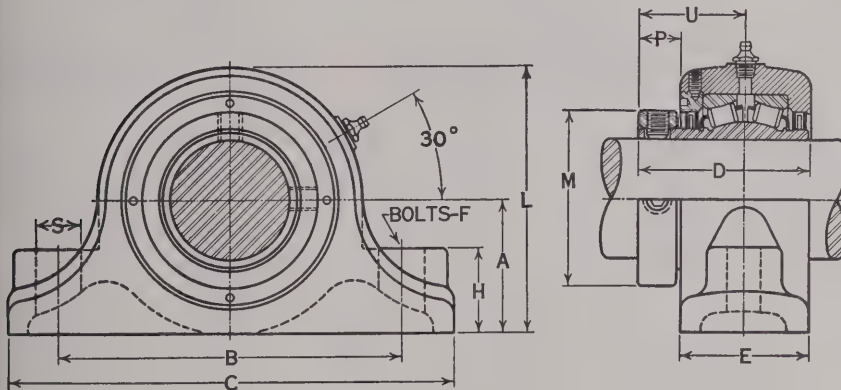
Hydraulic Type Grease Lubrication Fittings, which are located 30 degrees from horizontal centerline of pillow block, ($\frac{1}{8}$ " pipe tap), are included in list prices. Other types furnished only when specified—prices on request.

Furnished only in the non-expansion type.



P2-400—CAST IRON HOUSING

PK2-400—CAST STEEL HOUSING



PK2-400 Cast Steel Housing Series was developed for heavy duty and severe service applications where great housing tensile strength is required.

Shaft Diameter	PILLOW BLOCK NUMBER		Bearing Assembly Used *	A	B	C	D	E	F	H	L	M	P	S	U
	Cast Iron Housing	Cast Steel Housing													
$\frac{3}{4}$	P2-412		U412A	$1\frac{1}{16}$	$4\frac{3}{8}$	$5\frac{15}{16}$	$2\frac{9}{16}$	$2\frac{1}{16}$	$\frac{3}{8}$	$\frac{7}{8}$	$3\frac{1}{8}$	2	$1\frac{17}{32}$	$\frac{5}{8}$	$1\frac{9}{16}$
$1\frac{1}{16}$	P2-415		U415A	$1\frac{1}{16}$	$4\frac{3}{8}$	$5\frac{15}{16}$	$2\frac{9}{16}$	$2\frac{1}{16}$	$\frac{3}{8}$	$\frac{7}{8}$	$3\frac{1}{8}$	2	$1\frac{17}{32}$	$\frac{5}{8}$	$1\frac{9}{16}$
1	P2-416		U416A	$1\frac{1}{16}$	$4\frac{3}{8}$	$5\frac{15}{16}$	$2\frac{9}{16}$	$2\frac{1}{16}$	$\frac{3}{8}$	$\frac{7}{8}$	$3\frac{1}{8}$	2	$1\frac{17}{32}$	$\frac{5}{8}$	$1\frac{9}{16}$
$1\frac{1}{16}$	P2-419		U419A	$1\frac{3}{4}$	$4\frac{3}{4}$	$6\frac{5}{16}$	$2\frac{11}{16}$	$2\frac{3}{16}$	$\frac{3}{8}$	$1\frac{1}{16}$	$3\frac{1}{2}$	$2\frac{3}{16}$	$1\frac{17}{32}$	$\frac{5}{8}$	$1\frac{5}{8}$
$1\frac{1}{4}$	P2-420		U420A	$1\frac{3}{4}$	$4\frac{3}{4}$	$6\frac{5}{16}$	$2\frac{11}{16}$	$2\frac{3}{16}$	$\frac{3}{8}$	$1\frac{1}{16}$	$3\frac{1}{2}$	$2\frac{3}{16}$	$1\frac{17}{32}$	$\frac{5}{8}$	$1\frac{5}{8}$
$1\frac{7}{16}$	P2-423	PK2-423	U423A	$1\frac{7}{8}$	5	$6\frac{7}{8}$	$2\frac{7}{8}$	$2\frac{1}{4}$	$\frac{1}{2}$	$1\frac{3}{16}$	$3\frac{11}{16}$	$2\frac{1}{2}$	$2\frac{1}{32}$	$1\frac{13}{16}$	$1\frac{25}{32}$
$1\frac{1}{2}$	P2-424	PK2-424	U424A	$1\frac{7}{8}$	5	$6\frac{7}{8}$	$2\frac{7}{8}$	$2\frac{1}{4}$	$\frac{1}{2}$	$1\frac{3}{16}$	$3\frac{11}{16}$	$2\frac{1}{2}$	$2\frac{1}{32}$	$1\frac{13}{16}$	$1\frac{25}{32}$
$1\frac{11}{16}$	P2-427	PK2-427	U427A	$2\frac{1}{8}$	$5\frac{1}{2}$	$7\frac{3}{8}$	$3\frac{1}{8}$	$2\frac{1}{2}$	$\frac{1}{2}$	$1\frac{5}{16}$	$4\frac{1}{4}$	$2\frac{3}{4}$	$2\frac{1}{32}$	$1\frac{13}{16}$	$1\frac{29}{32}$
$1\frac{3}{4}$	P2-428	PK2-428	U428A	$2\frac{1}{8}$	$5\frac{1}{2}$	$7\frac{3}{8}$	$3\frac{1}{8}$	$2\frac{1}{2}$	$\frac{1}{2}$	$1\frac{5}{16}$	$4\frac{1}{4}$	$2\frac{3}{4}$	$2\frac{1}{32}$	$1\frac{13}{16}$	$1\frac{29}{32}$
$1\frac{5}{16}$	P2-431	PK2-431	U431A	$2\frac{1}{4}$	$6\frac{1}{4}$	$8\frac{3}{8}$	$3\frac{1}{8}$	$2\frac{1}{2}$	$\frac{5}{8}$	$1\frac{3}{8}$	$4\frac{9}{16}$	3	$2\frac{1}{32}$	$1\frac{15}{16}$	$1\frac{29}{32}$
2	P2-432	PK2-432	U432A	$2\frac{1}{4}$	$6\frac{1}{4}$	$8\frac{3}{8}$	$3\frac{1}{8}$	$2\frac{1}{2}$	$\frac{5}{8}$	$1\frac{3}{8}$	$4\frac{9}{16}$	3	$2\frac{1}{32}$	$1\frac{15}{16}$	$1\frac{29}{32}$
$2\frac{3}{16}$	P2-435	PK2-435	U435A	$2\frac{1}{2}$	$6\frac{3}{4}$	$8\frac{7}{8}$	$3\frac{5}{16}$	$2\frac{9}{16}$	$\frac{5}{8}$	$1\frac{5}{8}$	5	$3\frac{3}{8}$	$2\frac{5}{32}$	$1\frac{15}{16}$	$2\frac{1}{16}$
$2\frac{7}{16}$	P2-439	PK2-439	U439A	$2\frac{3}{4}$	$7\frac{1}{8}$	$9\frac{1}{4}$	$3\frac{1}{2}$	$2\frac{11}{16}$	$\frac{5}{8}$	$1\frac{3}{4}$	$5\frac{1}{2}$	$3\frac{11}{16}$	$2\frac{1}{32}$	$1\frac{15}{16}$	$2\frac{3}{16}$
$2\frac{1}{2}$	P2-440	PK2-440	U440A	$2\frac{3}{4}$	$7\frac{1}{8}$	$9\frac{1}{4}$	$3\frac{1}{2}$	$2\frac{11}{16}$	$\frac{5}{8}$	$1\frac{3}{4}$	$5\frac{1}{2}$	$3\frac{11}{16}$	$2\frac{1}{32}$	$1\frac{15}{16}$	$2\frac{3}{16}$
$2\frac{11}{16}$	P2-443	PK2-443	U443A	$3\frac{1}{4}$	$8\frac{1}{8}$	$10\frac{1}{16}$	4	$3\frac{3}{16}$	$\frac{3}{4}$	$2\frac{1}{4}$	$6\frac{1}{16}$	$4\frac{3}{16}$	$2\frac{1}{32}$	$1\frac{11}{16}$	$2\frac{7}{16}$
$2\frac{15}{16}$	P2-447	PK2-447	U447A	$3\frac{1}{4}$	$8\frac{1}{8}$	$10\frac{1}{16}$	4	$3\frac{3}{16}$	$\frac{3}{4}$	$2\frac{1}{4}$	$6\frac{1}{16}$	$4\frac{3}{16}$	$2\frac{1}{32}$	$1\frac{11}{16}$	$2\frac{7}{16}$
3	P2-448	PK2-448	U448A	$3\frac{1}{4}$	$8\frac{1}{8}$	$10\frac{1}{16}$	4	$3\frac{3}{16}$	$\frac{3}{4}$	$2\frac{1}{4}$	$6\frac{1}{16}$	$4\frac{3}{16}$	$2\frac{1}{32}$	$1\frac{11}{16}$	$2\frac{7}{16}$
$3\frac{7}{16}$	P2-455	PK2-455	U455A	$3\frac{3}{4}$	10	13	$4\frac{3}{8}$	$3\frac{7}{16}$	$\frac{7}{8}$	$2\frac{1}{4}$	$7\frac{1}{2}$	5	$1\frac{15}{16}$	$1\frac{5}{8}$	$2\frac{21}{32}$
$3\frac{1}{2}$	P2-456	PK2-456	U456A	$3\frac{3}{4}$	10	13	$4\frac{3}{8}$	$3\frac{7}{16}$	$\frac{7}{8}$	$2\frac{1}{4}$	$7\frac{1}{2}$	5	$1\frac{15}{16}$	$1\frac{5}{8}$	$2\frac{21}{32}$
$3\frac{11}{16}$	P2-459	PK2-459	U459A	$4\frac{1}{8}$	$10\frac{7}{8}$	$14\frac{1}{4}$	$5\frac{1}{16}$	4	1	$2\frac{1}{2}$	$8\frac{1}{4}$	$5\frac{1}{2}$	$1\frac{1}{32}$	$1\frac{7}{8}$	$3\frac{1}{32}$
$3\frac{15}{16}$	P2-463	PK2-463	U463A	$4\frac{1}{8}$	$10\frac{7}{8}$	$14\frac{1}{4}$	$5\frac{1}{16}$	4	1	$2\frac{1}{2}$	$8\frac{1}{4}$	$5\frac{1}{2}$	$1\frac{1}{32}$	$1\frac{7}{8}$	$3\frac{1}{32}$
4	P2-464	PK2-464	U464A	$4\frac{1}{8}$	$10\frac{7}{8}$	$14\frac{1}{4}$	$5\frac{1}{16}$	4	1	$2\frac{1}{2}$	$8\frac{1}{4}$	$5\frac{1}{2}$	$1\frac{1}{32}$	$1\frac{7}{8}$	$3\frac{1}{32}$

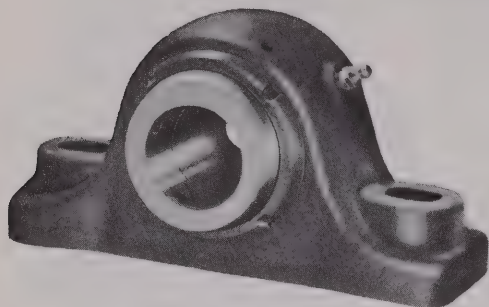
*Number covers bearing and collar with set-screws. Seals and threaded end cap furnished only when specified.

NEED HELP ON BEARINGS—CALL US

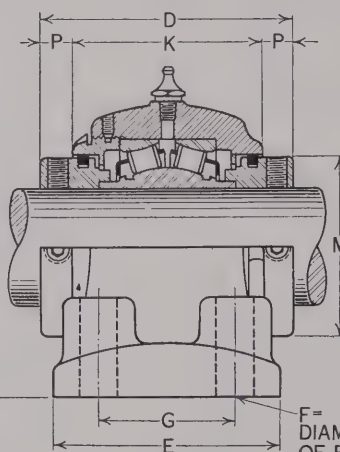
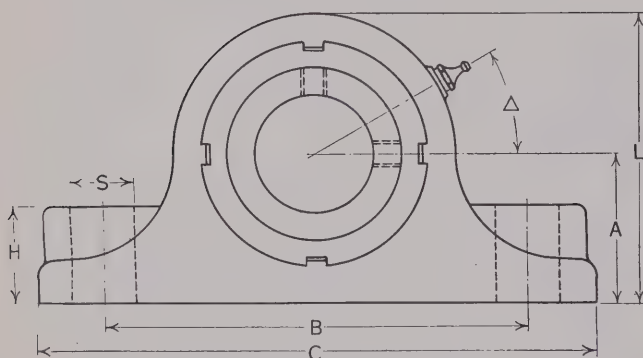
LINK-BELT

ROLLER BEARING SELF-ALIGNING PILLOW BLOCKS

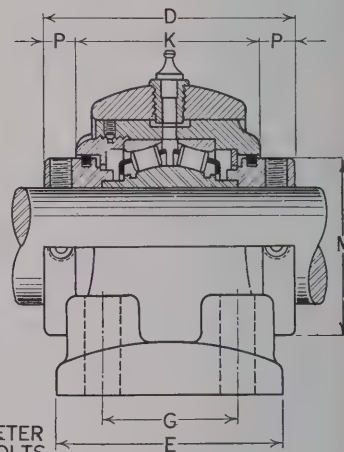
SERIES P2-500 AND PE2-500



Available for Replacement Only



Non-Expansion Type



Expansion Type

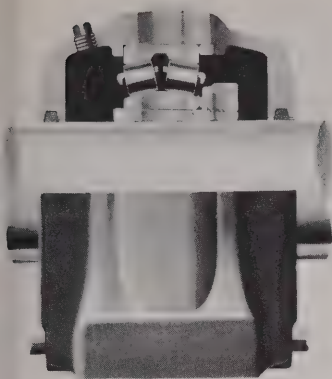
Shaft Sizes	NON-EXPAN.		EXPANSION		A	B	C	D	E	F	G	H	K	L		M	P	S	Total Expan. Type
	Model Number	Wt., ea.	Model Number	Wt., ea.										Non-Expan.	Expan.				
1 ¹ / ₁₆	P2-523	9	PE2-523	11.5	2 ¹ / ₈	5 ⁷ / ₈	7 ⁷ / ₈	3 ⁷ / ₈	2 ¹ / ₂	1 ¹ / ₂	...	1 ³ / ₈	2 ⁷ / ₈	4 ¹ / ₁₆	4 ¹¹ / ₃₂	2 ³ / ₈	1 ¹ / ₂	7 ⁸ / ₈	3 ⁸ / ₈
1 ¹ / ₂	P2-524	13	PE2-524	16.2	2 ⁵ / ₁₆	6 ¹ / ₂	8 ⁹ / ₁₆	4 ⁷ / ₁₆	2 ¹³ / ₁₆	1 ¹ / ₂	...	1 ¹ / ₂	3 ³ / ₈	4 ¹⁷ / ₃₂	4 ¹³ / ₁₆	2 ¹¹ / ₁₆	1 ⁷ / ₈	7 ⁸ / ₈	3 ⁸ / ₈
1 ¹¹ / ₁₆	P2-527	12.5	PE2-527	15.5	2 ⁵ / ₁₆	6 ¹ / ₂	8 ⁹ / ₁₆	4 ⁷ / ₁₆	2 ¹³ / ₁₆	1 ¹ / ₂	...	1 ¹ / ₂	3 ³ / ₈	4 ¹⁷ / ₃₂	4 ¹³ / ₁₆	2 ¹¹ / ₁₆	1 ⁷ / ₈	7 ⁸ / ₈	3 ⁸ / ₈
1 ¹⁵ / ₁₆	P2-531	15	PE2-531	18	2 ³ / ₂	7	9 ¹ / ₄	4 ⁷ / ₄	2 ⁷ / ₈	1 ¹ / ₂	...	1 ¹¹ / ₁₆	3 ³ / ₁₆	4 ¹⁸ / ₁₆	5 ¹ / ₁₆	3	1 ⁷ / ₈	1 ⁸ / ₈	3 ⁸ / ₈
1 ¹⁵ / ₁₆	P2-531F	16.5	PE2-531F	20	2 ¹ / ₂	7	9	4 ⁷ / ₄	3 ¹³ / ₁₆	1 ¹ / ₂	2 ¹ / ₄	2 ¹ / ₈	3 ³ / ₁₆	5 ⁵ / ₃₂	5 ⁵ / ₃₂	3	1 ⁷ / ₈	1 ⁸ / ₈	3 ⁸ / ₈
2	P2-532	19	PE2-532	24.5	2 ³ / ₄	7 ¹ / ₂	9 ¹⁵ / ₁₆	4 ⁵ / ₈	3 ¹ / ₈	5 ⁸ / ₈	...	2	3 ⁷ / ₁₆	5 ¹¹ / ₃₂	5 ²³ / ₃₂	3 ¹ / ₄	1 ⁹ / ₈	1 ⁸ / ₈	3 ⁸ / ₈
2	P2-532F	21	PE2-532F	26	2 ³ / ₄	7 ¹ / ₂	9 ¹⁵ / ₁₆	4 ⁵ / ₈	4	5 ⁸ / ₈	2 ¹ / ₄	2	3 ⁷ / ₁₆	5 ³ / ₈	5 ³ / ₄	3 ¹ / ₄	1 ⁹ / ₈	1 ⁸ / ₈	3 ⁸ / ₈
2 ³ / ₁₆	P2-535	18	PE2-535	23.5	2 ³ / ₄	7 ¹ / ₂	9 ¹⁵ / ₁₆	4 ⁵ / ₈	3 ¹ / ₈	5 ⁸ / ₈	...	2	3 ⁷ / ₁₆	5 ¹¹ / ₃₂	5 ²³ / ₃₂	3 ¹ / ₄	1 ⁹ / ₈	1 ⁸ / ₈	3 ⁸ / ₈
2 ³ / ₁₆	P2-535F	20	PE2-535F	25	2 ³ / ₄	7 ¹ / ₂	9 ¹⁵ / ₁₆	4 ⁵ / ₈	4	5 ⁸ / ₈	2 ¹ / ₄	2	3 ⁷ / ₁₆	5 ³ / ₈	5 ³ / ₄	3 ¹ / ₄	1 ⁹ / ₈	1 ⁸ / ₈	3 ⁸ / ₈
2 ⁷ / ₁₆	P2-539	23.5	PE2-539	28.7	3	8 ¹ / ₄	10 ³ / ₄	4 ⁷ / ₈	3 ³ / ₈	5 ⁸ / ₈	...	2 ¹ / ₈	3 ³ / ₈	5 ²⁷ / ₃₂	6 ³ / ₁₆	3 ⁵ / ₈	5 ⁸ / ₈	1 ¹ / ₄	3 ⁸ / ₈
2 ⁷ / ₁₆	P2-539F	26.5	PE2-539F	32	3	8 ¹ / ₄	10 ³ / ₄	4 ⁷ / ₈	4 ³ / ₈	5 ⁸ / ₈	2 ⁵ / ₈	2 ¹ / ₈	3 ⁵ / ₈	5 ⁷ / ₈	6 ⁷ / ₃₂	3 ⁵ / ₈	5 ⁸ / ₈	1 ¹ / ₈	3 ⁸ / ₈
2 ¹ / ₂	P2-540	38.5	PE2-540	46	3 ¹ / ₂	9 ³ / ₄	12 ⁷ / ₈	5 ⁵ / ₈	3 ⁷ / ₈	7 ⁸ / ₈	...	2 ⁵ / ₁₆	4 ¹ / ₄	6 ¹³ / ₁₆	7 ³ / ₁₆	4 ¹ / ₁₆	1 ¹¹ / ₁₆	1 ⁵ / ₈	1 ¹ / ₂
2 ¹ / ₂	P2-540F	41.5	PE2-540F	50	3 ¹ / ₂	9 ³ / ₄	12 ⁷ / ₈	5 ⁵ / ₈	4 ³ / ₄	7 ⁸ / ₈	2 ³ / ₄	2 ⁵ / ₁₆	4 ¹ / ₄	6 ¹⁵ / ₁₆	7 ⁵ / ₁₆	4 ¹ / ₁₆	1 ¹¹ / ₁₆	1 ⁵ / ₈	1 ¹ / ₂
2 ¹¹ / ₁₆	P2-543	36.5	PE2-543	44.5	3 ¹ / ₂	9 ³ / ₄	12 ⁷ / ₈	5 ⁵ / ₈	3 ⁷ / ₈	7 ⁸ / ₈	...	2 ⁵ / ₁₆	4 ¹ / ₄	6 ¹³ / ₁₆	7 ³ / ₁₆	4 ¹ / ₁₆	1 ¹¹ / ₁₆	1 ⁵ / ₈	1 ¹ / ₂
2 ¹¹ / ₁₆	P2-543F	39.5	PE2-543F	48	3 ¹ / ₂	9 ³ / ₄	12 ⁷ / ₈	5 ⁵ / ₈	4 ³ / ₄	7 ⁸ / ₈	2 ³ / ₄	2 ⁵ / ₁₆	4 ¹ / ₄	6 ¹⁵ / ₁₆	7 ⁵ / ₁₆	4 ¹ / ₁₆	1 ¹¹ / ₁₆	1 ⁵ / ₈	1 ¹ / ₂
2 ¹⁵ / ₁₆	P2-547	35	PE2-547	43	3 ¹ / ₂	9 ³ / ₄	12 ⁷ / ₈	5 ⁵ / ₈	3 ⁷ / ₈	7 ⁸ / ₈	...	2 ⁵ / ₁₆	4 ¹ / ₄	6 ¹³ / ₁₆	7 ³ / ₁₆	4 ¹ / ₁₆	1 ¹¹ / ₁₆	1 ⁵ / ₈	1 ¹ / ₂
2 ¹⁵ / ₁₆	P2-547F	38	PE2-547F	46.5	3 ¹ / ₂	9 ³ / ₄	12 ⁷ / ₈	5 ⁵ / ₈	4 ³ / ₄	7 ⁸ / ₈	2 ³ / ₄	2 ⁵ / ₁₆	4 ¹ / ₄	6 ¹⁵ / ₁₆	7 ⁵ / ₁₆	4 ¹ / ₁₆	1 ¹¹ / ₁₆	1 ⁵ / ₈	1 ¹ / ₂
3 ³ / ₁₆	P2-551F	54	PE2-551F	67	4	11 ¹ / ₂	14 ¹ / ₄	5 ⁷ / ₈	5	5 ⁸ / ₈	3	2 ¹ / ₂	4 ⁹ / ₁₆	7 ¹⁵ / ₁₆	8 ³ / ₈	4 ⁹ / ₁₆	2 ¹ / ₂	1 ¹ / ₂	1 ¹ / ₂
3 ⁷ / ₁₆	P2-555F	52	PE2-555F	65	4	11 ¹ / ₂	14 ¹ / ₄	5 ⁷ / ₈	5	5 ⁸ / ₈	3	2 ¹ / ₂	4 ⁹ / ₁₆	7 ¹⁵ / ₁₆	8 ³ / ₈	4 ⁹ / ₁₆	2 ¹ / ₂	1 ¹ / ₂	1 ¹ / ₂
3 ¹¹ / ₁₆	P2-559F	79	PE2-559F	97	4 ⁷ / ₁₆	12 ¹ / ₄	15 ⁵ / ₈	6 ¹ / ₂	5 ⁵ / ₈	7 ⁸ / ₈	3 ³ / ₈	2 ⁷ / ₈	5	8 ⁵ / ₈	9 ¹ / ₈	5 ¹ / ₈	3 ⁴ / ₄	1 ³ / ₄	3 ⁴ / ₄
3 ¹⁵ / ₁₆	P2-563F	76	PE2-563F	94	4 ⁷ / ₁₆	12 ¹ / ₄	15 ⁵ / ₈	6 ¹ / ₂	5 ⁵ / ₈	7 ⁸ / ₈	3 ³ / ₈	2 ⁷ / ₈	5	8 ⁵ / ₈	9 ¹ / ₈	5 ¹ / ₈	3 ⁴ / ₄	1 ³ / ₄	3 ⁴ / ₄
4	P2-564F	75	PE2-564F	93	4 ⁷ / ₁₆	12 ¹ / ₄	15 ⁵ / ₈	6 ¹ / ₂	5 ⁵ / ₈	7 ⁸ / ₈	3 ³ / ₈	2 ⁷ / ₈	5	8 ⁵ / ₈	9 ¹ / ₈	5 ¹ / ₈	3 ⁴ / ₄	1 ³ / ₄	3 ⁴ / ₄

▲ Grease fittings are located 30 degrees from horizontal centerline of pillow blocks of 3⁷/₁₆" shaft size and below except 1⁷/₁₆" (PE2-523), 2" (PE2-532), and 2³/₁₆" (PE2-535) sizes which are 35 degrees; 45 degrees for units over 3⁷/₁₆" shaft size.

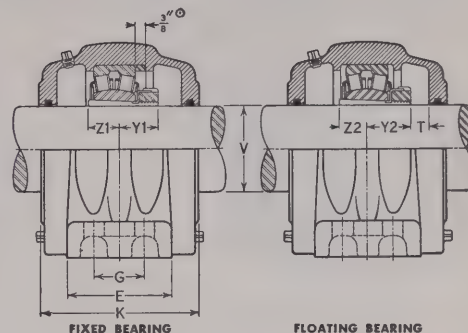
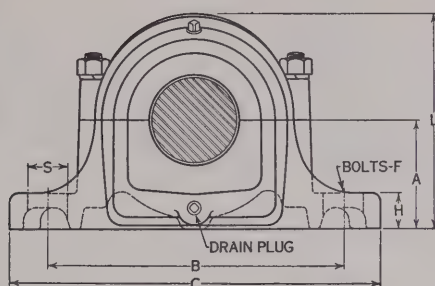
These blocks can be furnished with auxiliary dust caps. Designated as AP-500 Series, Auxiliary Dust Seal Type. Cost approximately 25% higher than P2-500 Series prices.

LINK-BELT PILLOW BLOCKS

SELF-ALIGNING—ROLLER BEARING SPLIT HOUSING—ADAPTER TYPE



Illustrating Felt Sealed Unit



HEAVY SERIES—LP-6800 SPIRAL SEALED AND GP-6800 FELT SEALED

Shaft Diam- eter V	Pillow Block, Number					Bearing and Adapter Number	A	B	C	E	F	G	H	K	L	S
	Spiral Sealed		Felt Sealed													
	Fixed Type	Floating Type	Fixed Type	Floating Type	Wt. each											
2 7/16	LP-6839	LPE-6839	GP-6839	GPE-6839	38.5	DE22516A-27 7/16	3 1/2	10 5/16	13	3 1/2	3/4	...	1 1/4	5 1/4	7	1 7/16
2 11/16	LP-6843	LPE-6843	GP-6843	GPE-6843	37.5	DE22516A-21 11/16	3 1/2	10 5/16	13	3 1/2	3/4	...	1 1/4	5 1/4	7	1 7/16
2 15/16	LP-6847	LPE-6847	GP-6847	GPE-6847	41.5	DE22517A-21 15/16	3 3/4	10 7/16	13	3 1/2	3/4	...	1 1/4	5 1/4	7 7/16	1 5/16
3	LP-6848	LPE-6848	GP-6848	GPE-6848	41.5	DE22517A-3	3 3/4	10 7/16	13	3 1/2	3/4	...	1 1/4	5 1/4	7 7/16	1 5/16
3 3/16	LP-6851	LPE-6851	GP-6851	GPE-6851	47	DE22518A-3 3/16	4	11	13 3/4	3 7/8	3/4	...	1 5/16	5 7/8	7 15/16	1 1/2
3 7/16	LP-6855	LPE-6855	GP-6855	GPE-6855	68	DE22520A-37 7/16	4 1/2	12 3/4	15 1/4	4 3/8	7/8	...	1 1/2	6 1/2	8 7/8	1 5/8
3 11/16	LP-6856	LPE-6856	GP-6856	GPE-6856	68	DE22520A-31 1/2	4 1/2	12 3/4	15 1/4	4 3/8	7/8	...	1 1/2	6 1/2	8 7/8	1 5/8
3 15/16	LP-6859F	LPE-6859F	GP-6859F	GPE-6859F	88	DE22522A-31 15/16	4 15/16	13 3/8	16 1/2	4 3/4	2 3/4	1 5/8	7	9 3/4	11 1/16	1 11/16
4	LP-6863F	LPE-6863F	GP-6863F	GPE-6863F	87	DE22522A-3 15/16	4 15/16	13 3/8	16 1/2	4 3/4	2 3/4	1 5/8	7	9 3/4	11 1/16	1 11/16
	LP-6864F	LPE-6864F	GP-6864F	GPE-6864F	87	DE22522A-4	4 15/16	13 3/8	16 1/2	4 3/4	2 3/4	1 5/8	7	9 3/4	11 1/16	1 11/16
4 3/16	LP-6867F	LPE-6867F	GP-6867F	GPE-6867F	104	DE22524A-4 3/16	5 1/4	13 7/8	16 1/2	4 3/4	3/4	2 3/4	1 3/4	7 1/4	10 7/16	1 3/8
4 7/16	LP-6871F	LPE-6871F	GP-6871F	GPE-6871F	140	DE22526A-4 7/16	6	15 5/16	18 3/4	5 1/8	3/4	1 1/4	1 7/8	7 3/4	11 11/16	1 5/8
4 11/16	LP-6872F	LPE-6872F	GP-6872F	GPE-6872F	140	DE22526A-4 11/16	6	15 5/16	18 3/4	5 1/8	7/8	3/4	1 7/8	7 3/4	11 11/16	1 5/8
4 15/16	LP-6879F	LPE-6879F	GP-6879F	GPE-6879F	157	DE22528A-4 15/16	6	16 9/16	20 1/8	5 7/8	1	3 3/4	1 15/16	7 3/8	11 15/16	1 5/8
5	LP-6880F	LPE-6880F	GP-6880F	GPE-6880F	157	DE22528A-5	6	16 9/16	20 1/8	5 7/8	1	3 3/4	1 15/16	7 3/8	11 15/16	1 5/8
5 3/16	LP-6883F	LPE-6883F	GP-6883F	GPE-6883F	187	DE22530A-5 3/16	6 5/16	17 5/8	21 1/4	6 1/4	1	3 3/4	2	8 1/8	12 11/16	1 5/8
5 7/16	LP-6887F	LPE-6887F	GP-6887F	GPE-6887F	209	DE22532A-5 7/16	6 11/16	18 5/8	22	6 1/4	1	3 3/4	2	8 1/8	13 1/2	1 15/16
5 11/16	LP-6895F	LPE-6895F	GP-6895F	GPE-6895F	264	DE22534A-5 11/16	7 1/16	20 1/2	24 3/4	6 3/4	1	4 1/4	2 1/8	9 1/4	14 3/8	2 1/8
6	LP-6896F	LPE-6896F	GP-6896F	GPE-6896F	264	DE22534A-6	7 1/16	20 1/2	24 3/4	6 3/4	1	4 1/4	2 1/8	9 1/4	14 3/8	2 1/8
6 1/16	LP-68103F	LPE-68103F	GP-68103F	GPE-68103F	304	DE22536A-6 1/16	7 1/2	22 1/4	26 3/4	7 1/8	1	4 5/8	2 1/8	9 3/8	15 1/16	2 3/8
6 15/16	LP-68111F	LPE-68111F	GP-68111F	GPE-68111F	370	DE22538A-6 15/16	7 3/4	23	28	7 1/2	1 1/4	4 1/2	2 3/8	10 1/4	15 15/16	2 5/8
7	LP-68112F	LPE-68112F	GP-68112F	GPE-68112F	370	DE22538A-7	7 3/4	23	28	7 1/2	1 1/4	4 1/2	2 3/8	10 1/4	15 15/16	2 5/8

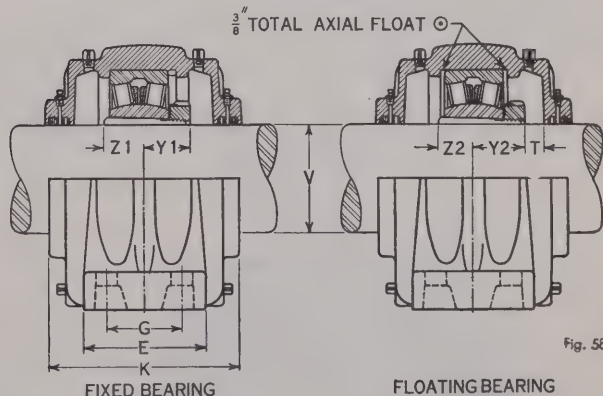
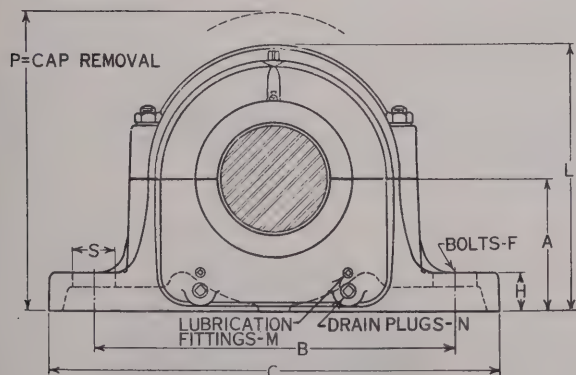


Fig. 5841

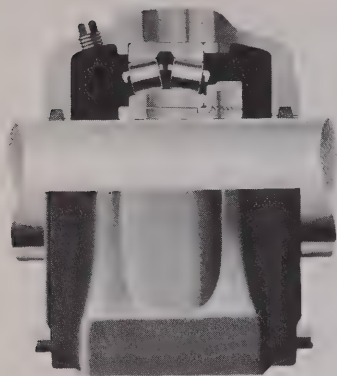
7 1/2	LLP-68120F	LLPE-68120F	LGP-68120F	LGPE-68120F	675	DE22544A-7 1/2	9 1/2	26 5/16	32 3/4	8 3/4	1 1/2	5 1/4	2 3/8	13 3/4	19 1/4	3 1/16
7 11/16	LLP-68127F	LLPE-68127F	LGP-68127F	LGPE-68127F	665	DE22544A-7 11/16	9 1/2	26 5/16	32 3/4	8 3/4	1 1/2	5 1/4	2 3/8	13 3/4	19 1/4	3 1/16
8	LLP-68128F	LLPE-68128F	LGP-68128F	LGPE-68128F	665	DE22544A-8	9 1/2	26 5/16	32 3/4	8 3/4	1 1/2	5 1/4	2 3/8	13 3/4	19 1/4	3 1/16
9	LLP-66144F	LLPE-66144F	LGP-66144F	LGPE-66144F	655	DE23356A-9	9 1/2	26 5/16	32 3/4	8 3/4	1 1/2	5 1/4	2 3/8	13 3/4	19 1/4	3 1/16
10	LLP-66160F	LLPE-66160F	LGP-66160F	LGPE-66160F	620	DE23356A-10	9 1/2	26 5/16	32 3/4	8 3/4	1 1/2	5 1/4	2 3/8	13 3/4	19 1/4	3 1/16

● Total axial movement of floating bearing is 3/8" (width of C-spacer).
When ordering closed end units add suffix "C" to model number.
Suffix "F" in model numbers above designates four-bolt base. Standard two bolt base sizes listed above available with four bolt base when specified.
Felt Sealed (GP-GPE) Blocks are for grease lubrication only.
Spiral Sealed (LP-LPE) Blocks may be used for oil or grease lubrication and for extremely dirty operating conditions.

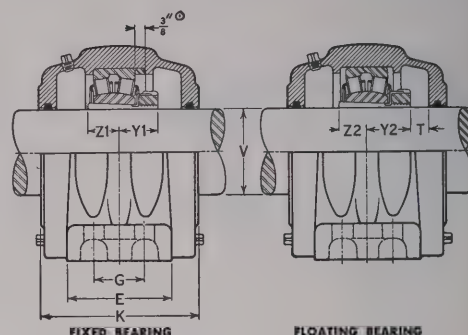
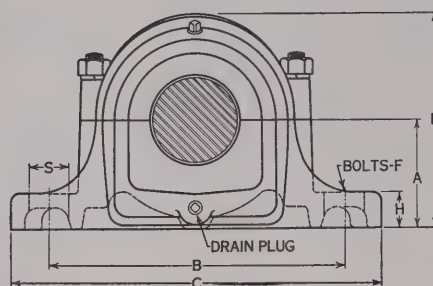
NEED HELP ON BEARINGS—CALL US

LINK-BELT PILLOW BLOCKS

EXTRA HEAVY DUTY—SELF-ALIGNING
SPLIT HOUSING—ROLLER BEARING—ADAPTER TYPE



Illustrating Felt Sealed Unit



EXTRA HEAVY SERIES—LP-6900 SPIRAL SEALED AND GP-6900 FELT SEALED

Shaft Diam- eter V	Pillow Block Number					Bearing and Adapter Number	A	B	C	E	F	G	H	K	L	S
	Spiral Sealed		Felt Sealed		Wt. each											
	Fixed Type	Floating Type	Fixed Type	Floating Type												
1 ⁷ / ₁₆	LP-6923	LPE-6923	GP-6923	GPE-6923	20	DE22609A-1 ⁷ / ₁₆	2 ³ / ₄	7 ⁵ / ₈	9 ⁵ / ₈	2 ³ / ₄	2-5 ⁵ / ₈	...	1	4 ¹ / ₈	5 ³ / ₈	1
1 ¹ / ₂	LP-6924	LPE-6924	GP-6924	GPE-6924	20	DE22609A-1 ¹ / ₂	2 ³ / ₄	7 ⁵ / ₈	9 ⁵ / ₈	2 ³ / ₄	2-5 ⁵ / ₈	...	1	4 ¹ / ₈	5 ³ / ₈	1
1 ¹¹ / ₁₆	LP-6927	LPE-6927	GP-6927	GPE-6927	22.5	DE22610A-1 ¹¹ / ₁₆	3	8 ³ / ₈	10 ⁵ / ₈	2 ³ / ₄	2-5 ⁵ / ₈	...	1 ¹ / ₈	4 ¹ / ₂	5 ⁷ / ₈	1 ¹ / ₄
1 ¹⁵ / ₁₆	LP-6931	LPE-6931	GP-6931	GPE-6931	27.5	DE22611A-1 ¹⁵ / ₁₆	3 ¹ / ₄	8 ¹³ / ₁₆	11	3 ¹ / ₂	2-5 ⁵ / ₈	...	1 ³ / ₈	4 ³ / ₄	6 ⁵ / ₈	1 ⁵ / ₈
2	LP-6932	LPE-6932	GP-6932	GPE-6932	27.5	DE22611A-2	3 ¹ / ₄	8 ¹³ / ₁₆	11	3 ¹ / ₂	2-5 ⁵ / ₈	...	1 ³ / ₈	4 ³ / ₄	6 ⁵ / ₈	1 ⁵ / ₈
2 ³ / ₁₆	LP-6935	LPE-6935	GP-6935	GPE-6935	41	DE22613A-2 ³ / ₁₆	3 ¹ / ₂	10 ⁵ / ₈	13	3 ¹ / ₂	2-8 ³ / ₄	...	1 ¹ / ₂	5 ¹ / ₄	7	1 ⁷ / ₈
2 ⁷ / ₁₆	LP-6939	LPE-6939	GP-6939	GPE-6939	52	DE22615A-2 ⁷ / ₁₆	4	11	13 ³ / ₄	3 ¹ / ₂	2-8 ³ / ₄	...	1 ⁵ / ₈	5 ⁷ / ₈	7 ¹⁵ / ₁₆	1 ¹ / ₂
2 ¹ / ₂	LP-6940	LPE-6940	GP-6940	GPE-6940	52	DE22615A-2 ¹ / ₂	4	11	13 ³ / ₄	3 ¹ / ₂	2-8 ³ / ₄	...	1 ⁵ / ₈	5 ⁷ / ₈	7 ¹⁵ / ₁₆	1 ¹ / ₂
2 ¹¹ / ₁₆	LP-6943	LPE-6943	GP-6943	GPE-6943	59	DE22616A-2 ¹¹ / ₁₆	4 ¹ / ₄	11 ⁵ / ₈	14 ¹ / ₄	3 ¹ / ₂	2-8 ³ / ₄	...	1 ⁵ / ₈	6 ¹ / ₈	8 ³ / ₈	1 ³ / ₄
2 ¹⁵ / ₁₆	LP-6947	LPE-6947	GP-6947	GPE-6947	71	DE22617A-2 ¹⁵ / ₁₆	4 ¹ / ₂	12 ³ / ₈	15 ¹ / ₄	4 ³ / ₈	2-7 ⁵ / ₈	...	1 ¹ / ₂	6 ¹ / ₂	8 ³ / ₈	1 ⁵ / ₈
3 ³ / ₁₆	LP-6951F	LPE-6951F	GP-6951F	GPE-6951F	81	DE22618A-3 ³ / ₁₆	4 ³ / ₄	12 ³ / ₄	15 ¹ / ₂	4 ³ / ₈	4-8 ³ / ₄	2 ¹ / ₄	1 ⁵ / ₈	6 ⁵ / ₈	9 ³ / ₈	1 ¹ / ₂
3 ⁷ / ₁₆	LP-6955F	LPE-6955F	GP-6955F	GPE-6955F	111	DE22620A-3 ⁷ / ₁₆	5 ¹ / ₄	13 ³ / ₈	16 ¹ / ₂	4 ³ / ₈	4-8 ³ / ₄	2 ¹ / ₄	1 ⁵ / ₈	7 ¹ / ₈	10 ⁷ / ₈	1 ³ / ₄
3 ¹¹ / ₁₆	LP-6959F	LPE-6959F	GP-6959F	GPE-6959F	149	DE22622A-3 ¹¹ / ₁₆	6	15 ⁵ / ₈	18 ⁵ / ₈	5 ³ / ₈	4-7 ⁵ / ₈	3 ¹ / ₄	1 ⁷ / ₈	7 ³ / ₄	11 ¹ / ₁₆	1 ³ / ₄
3 ¹⁵ / ₁₆	LP-6963F	LPE-6963F	GP-6963F	GPE-6963F	147	DE22622A-3 ¹⁵ / ₁₆	6	15 ⁵ / ₈	18 ⁵ / ₈	5 ³ / ₈	4-7 ⁵ / ₈	3 ¹ / ₄	1 ⁷ / ₈	7 ³ / ₄	11 ¹ / ₁₆	1 ³ / ₄
4	LP-6964F	LPE-6964F	GP-6964F	GPE-6964F	147	DE22622A-4	6	15 ⁵ / ₈	18 ⁵ / ₈	5 ³ / ₈	4-7 ⁵ / ₈	3 ¹ / ₄	1 ⁷ / ₈	7 ³ / ₄	11 ¹ / ₁₆	1 ³ / ₄
4 ³ / ₁₆	LP-6967F	LPE-6967F	GP-6967F	GPE-6967F	205	DE22624A-4 ³ / ₁₆	6 ⁵ / ₈	17 ⁵ / ₈	21 ¹ / ₄	6 ¹ / ₄	4-1	3 ³ / ₄	2	8 ¹ / ₈	12 ¹ / ₁₆	1 ⁵ / ₈
4 ⁷ / ₁₆	LP-6971F	LPE-6971F	GP-6971F	GPE-6971F	228	DE22626A-4 ⁷ / ₁₆	6 ¹¹ / ₁₆	18 ³ / ₈	22	6 ¹ / ₄	4-1	3 ³ / ₄	2	8 ¹ / ₈	13 ¹ / ₂	1 ¹⁵ / ₁₆
4 ¹⁵ / ₁₆	LP-6979F	LPE-6979F	GP-6979F	GPE-6979F	287	DE22628A-4 ¹⁵ / ₁₆	7 ¹ / ₁₆	20 ¹ / ₈	24 ³ / ₄	6 ³ / ₄	4-1	4 ¹ / ₄	2 ¹ / ₈	9 ¹ / ₄	14 ³ / ₈	2 ¹ / ₈
5	LP-6980F	LPE-6980F	GP-6980F	GPE-6980F	287	DE22628A-5	7 ¹ / ₁₆	20 ¹ / ₈	24 ³ / ₄	6 ³ / ₄	4-1	4 ¹ / ₄	2 ¹ / ₈	9 ¹ / ₄	14 ³ / ₈	2 ¹ / ₈
5 ¹ / ₈	LP-6983F	LPE-6983F	GP-6983F	GPE-6983F	343	DE22630A-5 ³ / ₁₆	7 ¹ / ₂	22 ¹ / ₄	26 ³ / ₄	7 ¹ / ₈	4-1	4 ⁵ / ₈	2 ¹ / ₈	9 ⁵ / ₈	15 ¹ / ₁₆	2 ³ / ₈
5 ⁷ / ₁₆	LP-6987F	LPE-6987F	GP-6987F	GPE-6987F	420	DE22632A-5 ⁷ / ₁₆	7 ⁷ / ₈	23	28	7 ¹ / ₂	4-1 ¹ / ₄	4 ¹ / ₂	2 ³ / ₈	10 ¹ / ₄	15 ¹ / ₁₆	2 ⁵ / ₈

• Total axial movement of floating bearing is $\frac{3}{16}$ " (width of C-spacer).

When ordering closed end units add suffix "C" to model number.

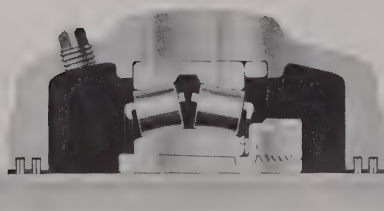
Suffix "F" in model numbers above designates four-bolt base. Standard two bolt base sizes listed above available with four bolt base when specified.

Felt Sealed (GP-GPE) Blocks are for grease lubrication only.

Spiral Sealed (LP-LPE) Blocks may be used for oil or grease lubrication and for extremely dirty operating conditions.

LINK-BELT SPLIT HOUSING PILLOW BLOCKS

BEARING MOUNTING AND SEALING FEATURES



ADAPTER MOUNTING

The bore of the roller bearing is tapered to match the adapter sleeve. The locknut drives the bearing up on the adapter to obtain a positive tight fit between the bearing and shaft.

Note the stabilizing rings mounted between the housing shoulder and bearing outer ring, which fix the location of the "held" bearing in the housing. Stabilizing rings are omitted from the "floating" type pillow blocks. Only one bearing on any single shaft should be held.



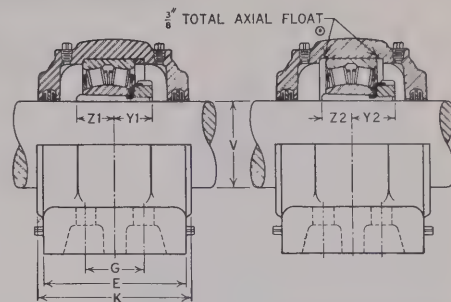
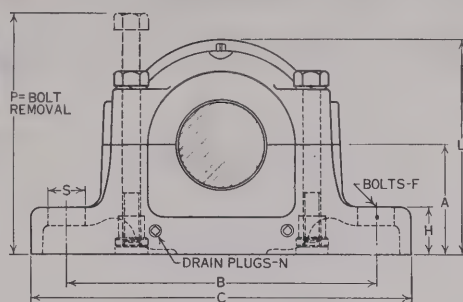
DIRECT MOUNT

Conventional cylindrical bore roller bearings are pressed directly on shaft. Locknut and lock washer secures the bearing and safeguards against slippage of the inner ring on the shaft.

NEED HELP ON BEARINGS—CALL US



LINK-BELT PILLOW BLOCKS CAST STEEL SPLIT HOUSING



LPK and GPK-6800 Series
LPK and GPK-7800 Series

Fixed Bearing

Floating Bearing

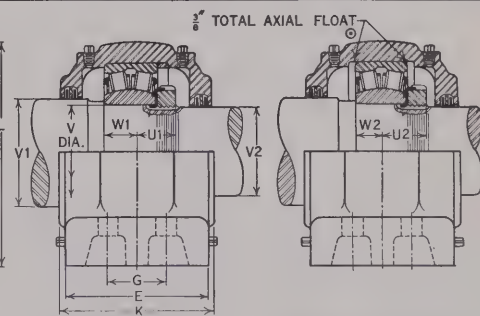
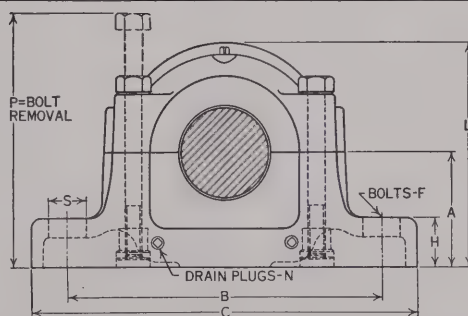
ADAPTER MOUNTING—LPK and GPK-6800 SERIES

Shaft diam. V, In.	Pillow Block Number		Wt. lbs.	Assembly number of bearing with adapter sleeve, locknut and lockwasher	A	B	C	E	F	G	H	K	L	N	P	S	Y1	Y2	Z1 max. +0 - 1/8	Z2 max. +0 - 1/8
	*																			
	With spiral seals	With felt seals																		
INCHES																				
2 7/16	LPK 6839F	GPK 6839F	51	DE 22516A-27 1/16	3 1/4	10 5/16	13	4 7/8	5 5/8	2	1 5/8	5 1/4	7	1/4	PT	11 3/8	17 1/8	1 3/8	12 1/4	1 5/8
2 11/16	LPK 6843F	GPK 6843F	51	DE 22516A-21 1/16	3 3/4	10 5/16	13	4 7/8	5 5/8	2	1 5/8	5 1/4	7 1/16	1/4	PT	11 3/8	17 1/8	1 3/8	12 1/4	1 5/8
2 15/16	LPK 6847F	GPK 6847F	51	DE 22517A-21 5/16	3 3/4	10 5/16	13	4 7/8	5 5/8	2	1 5/8	5 1/4	7 1/16	1/4	PT	11 3/8	17 1/8	1 3/8	12 1/4	1 5/8
3	LPK 6848F	GPK 6848F	51	DE 22517A-3	3 3/4	10 5/16	13	4 7/8	5 5/8	2	1 5/8	5 1/4	7 1/16	1/4	PT	11 3/8	17 1/8	1 3/8	12 1/4	1 5/8
3 1/16	LPK 6855F	GPK 6855F	86	DE 22520A-3 1/16	4 1/4	12 3/8	15 1/4	6	8 3/4	2 3/8	1 7/8	6 1/4	8 1/8	1/4	PT	14 1/8	1 5/8	14 1/4	1 5/8	1 5/8
3 1/2	LPK 6856F	GPK 6856F	86	DE 22520A-3 1/2	4 1/4	13 3/8	15 1/4	6	8 3/4	2 3/8	1 7/8	6 1/4	8 1/8	1/4	PT	14 1/8	1 5/8	14 1/4	1 5/8	1 5/8
3 11/16	LPK 6859F	GPK 6859F	112	DE 22522A-3 11/16	4 15/16	13 1/8	16 1/8	6 1/2	8 3/4	2 3/4	2	7	9 3/4	1/4	PT	15 5/8	1 11/16	1 27/32	1 11/32	1 11/32
3 15/16	LPK 6863F	GPK 6863F	112	DE 22522A-3 15/16	4 15/16	13 1/8	16 1/8	6 1/2	8 3/4	2 3/4	2	7	9 3/4	1/4	PT	15 5/8	1 11/16	1 27/32	1 11/32	1 11/32
4	LPK 6864F	GPK 6864F	112	DE 22522A-4	4 15/16	13 1/8	16 1/8	6 1/2	8 3/4	2 3/4	2	7	9 3/4	1/4	PT	15 5/8	1 11/16	1 27/32	1 11/32	1 11/32
4 1/16	LPK 6871F	GPK 6871F	175	DE 22526A-4 1/16	6	15 1/8	18 3/8	7 1/4	9 3/4	2 1/4	2 1/4	7 3/4	11 11/16	1/4	PT	18 3/4	1 19/16	2 1/8	1 19/16	1 19/16
4 1/8	LPK 6872F	GPK 6872F	175	DE 22526A-4 1/8	6	15 1/8	18 3/8	7 1/4	9 3/4	2 1/4	2 1/4	7 3/4	11 11/16	1/4	PT	18 3/4	1 19/16	2 1/8	1 19/16	1 19/16
4 15/16	LPK 6879F	GPK 6879F	207	DE 22528A-4 15/16	6	16 1/8	20 1/8	6 3/4	1	3 3/8	2 1/2	7 3/8	11 15/16	1/4	PT	19 3/4	1 19/16	2 1/8	1 19/16	1 19/16
5	LPK 6880F	GPK 6880F	207	DE 22528A-5	6	16 1/8	20 1/8	6 3/4	1	3 3/8	2 1/2	7 3/8	11 15/16	1/4	PT	19 3/4	1 19/16	2 1/8	1 19/16	1 19/16
5 1/16	LPK 6887F	GPK 6887F	270	DE 22532A-5 1/16	6 11/16	18 1/8	22	8	1	3 3/8	2 3/4	8 3/8	13 1/8	1/4	PT	21 5/8	1 15/16	2 3/8	1 15/16	1 15/16
5 15/16	LPK 6895F	GPK 6895F	368	DE 22534A-5 15/16	7 1/16	20 1/8	24 3/4	8 3/4	1	4 1/4	3	9 1/4	14 3/8	1/4	PT	22 15/16	2 1/8	2 3/8	2 1/8	2 1/8
6	LPK 6896F	GPK 6896F	368	DE 22534A-6	7 1/16	20 1/8	24 3/4	8 3/4	1	4 1/4	3	9 1/4	14 3/8	1/4	PT	22 15/16	2 1/8	2 3/8	2 1/8	2 1/8
6 1/16	LPK 68103F	GPK 68103F	390	DE 22536A-6 1/16	7 1/8	22 1/4	26 3/4	9 1/8	1	4 5/8	3 1/4	9 5/8	15 15/16	1/4	PT	23 7/8	2 1/8	2 3/8	2 1/8	2 1/8
6 15/16	LPK 68111F	GPK 68111F	470	DE 22538A-6 15/16	7 7/8	23	28	9 3/4	1 1/4	4 1/2	3 1/4	10 1/4	15 15/16	1/2	PT	25 3/4	2 5/8	2 3/8	2 5/8	2 5/8
7	LPK 68112F	GPK 68112F	470	DE 22538A-7	7 7/8	23	28	9 3/4	1 1/4	4 1/2	3 1/4	10 1/4	15 15/16	1/2	PT	25 3/4	2 5/8	2 3/8	2 5/8	2 5/8
7 1/8	LLPK 68120F	LGPK 68120F	875	DE 22544A-7 1/8	9 1/8	26 3/4	32	12	1 3/4	7 1/4	4	14	18 7/8	3/4	PT	30 5/8	2 5/8	3 3/8	2 5/8	2 5/8
7 15/16	LLPK 68127F	LGPK 68127F	860	DE 22544A-7 15/16	9 1/8	26 3/4	32	12	1 3/4	7 1/4	4	14	18 7/8	3/4	PT	30 5/8	2 5/8	3 3/8	2 5/8	2 5/8
8	LLPK 68128F	LGPK 68128F	860	DE 22544A-8	9 1/8	26 3/4	32	12	1 3/4	7 1/4	4	14	18 7/8	3/4	PT	30 5/8	2 5/8	3 3/8	2 5/8	2 5/8
9	LLPK 66144F	LGPK 66144F	850	DE 23356A-9	9 1/2	26 3/4	32	12	1 3/4	7 1/4	4	14	18 7/8	3/4	PT	30 5/8	2 5/8	3 3/8	2 5/8	2 5/8
10	LLPK 66160F	LGPK 66160F	800	DE 23356A-10	9 1/2	26 3/4	32	12	1 3/4	7 1/4	4	14	18 7/8	3/4	PT	30 5/8	2 5/8	3 3/8	2 5/8	2 5/8

DIRECT SHAFT MOUNTED

LPK-7800 Series
GPK-7800 Series

These bearings are pressed directly on the shaft and are usually positioned against a shaft shoulder.



Fixed Bearing

Floating Bearing

Bearing bore V, Inches	Shaft diameter, Inches		Pillow Block Number *		Wt. lbs.	Bearing number	A	B	C	E	F	G	H	K	L	N	P	S	U1	U2	W1 +0 -1/8	W2 +0 -1/8	
																							V1	V2	With spiral seals	With felt seals
	INCHES																						
3.1496	3 3/8	3	LPK 7880F	GPK 7880F	48	DE 22216	3 1/4	10 5/16	13	4 7/8	5 5/8	2	1 5/8	5 1/4	7 7/16	1/4 PT	11 3/8	17 1/8	1 3/8	12 1/4	1 5/8	27 3/32	21 3/32
3.3465	3 11/16	3 1/16	LPK 7885F	GPK 7885F	50	DE 22217	3 3/4	10 1/16	13	4 7/8	5 5/8	2	1 5/8	5 1/4	7 1/16	1/4 PT	11 3/8	15 1/8	1 3/8	11 15/32	1 5/8	27 3/32	23 3/32
3.9370	4 3/8	3 13/16	LPK 78100F	GPK 78100F	85	DE 22220	4 3/8	12 3/8	15 1/4	6	8 3/4	2 3/8	1 7/8	6 3/4	8 7/8	1/4 PT	14 1/8	1 5/8	1 14 1/4	1 5/8	1 5/8	13 3/32	23 3/32
4.3307	4 5/8	4 3/16	LPK 78110F	GPK 78110F	105	DE 22222	4 15/16	13 3/8	16 1/8	6 1/2	8 3/4	2 3/4	2	7	9 3/4	1/4 PT	15 5/8	1 11 1/16	1 27/32	2 1/8	1 11 1/32	1 11 1/32	1 11 1/32
5.1181	5 7/8	4 15/16	LPK 78130F	GPK 78130F	170	DE 22226	6	15 1/8	18 3/8	7 1/4	9 3/4	3 1/4	2 1/4	7 3/4	11 11/16	1/4 PT	18 3/4	1 19 1/16	1 2 1/8	2 17 1/16	1 29 1/16	1 29 1/16	1 17 1/16
5.5118	6 1/4	5 1/16	LPK 78140F	GPK 78140F	190	DE 22228	6	16 1/8	20 1/8	6 3/4	1	3 3/8	2 1/2	7 3/8	11 15/16	1/4 PT	19 3/4	1 19 1/16	1 2 1/8	2 15 1/16	1 17 1/16	1 17 1/16	1 11 1/16
6.2992	7	6 1/16	LPK 78160F	GPK 78160F	250	DE 22232	6 11/16	18 1/8	22	8	1	3 3/4	2 3/4	8 3/8	13 1/8	1/4 PT	21 5/8	1 15 1/16	2 23 1/8	2 49 1/8	1 49 1/8	1 37 1/8	1 37 1/8
6.6929	7 7/16	6 1/8	LPK 78170F	GPK 78170F	344	DE 22234	7 1/16	20 1/8	24 3/4	8 3/4	1	4 1/4	3	9 1/4	14 3/8	1/4 PT	22 15/16	2 15 1/16	2 27 3/8	2 29 3/8	1 17 1/8	1 17 1/8	1 11 1/16
7.0866	7 15/16	6 3/8	LPK 78180F	GPK 78180F	365	DE 22236	7 7/8	22 1/4	26 3/4	9 1/8	1	4 5/8	3 3/4	9 5/8	15 15/16	1/2 PT	23 7/8	2 2 3/8	2 2 3/8	2 15 1/16	1 1/8	1 11 1/16	1 11 1/16
7.4803	8 3/8	7 3/4	LPK 78190F	GPK 78190F	450	DE 22238	7 7/8	23	28	9 3/4	1 1/4	4 1/2	3 1/4	10 1/4	15 15/16	1/2 PT	25 3/4	2 2 5/8	2 29 3/8	3 3/8	2	2 11 1/16	2 11 1/16
8.6614	9 1/8	8 1/16	LLPK 78220F	LGPK 78220F	800	DE 22244	9 1/2	26 3/4	32	12	1 3/4	7 1/4	4	14	18 7/8	3/4 PT	30 5/8	2 2 5/8	3 35 1/8	3 35 1/8	2 1/8	2 1/8	2 1/8
11.0236	12	10 3/4	LLPK 76280F	LGPK 76280F	775	DE 23056	9 1/2	26 3/4	32	12	1 3/4	7 1/4	4	14	18 7/8	3/4 PT	30 5/8	2 2 5/8	3 36 1/8	3 36 1/8	2 1/8	2 1/8	2 1/8

*Fixed bearing, open end block listed in table. When ordering:

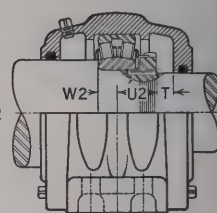
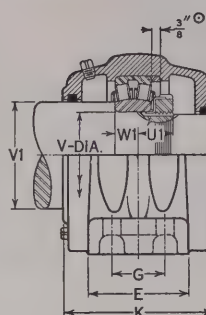
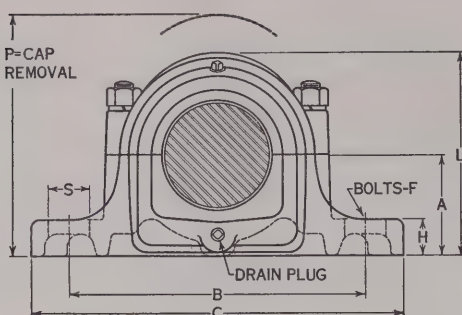
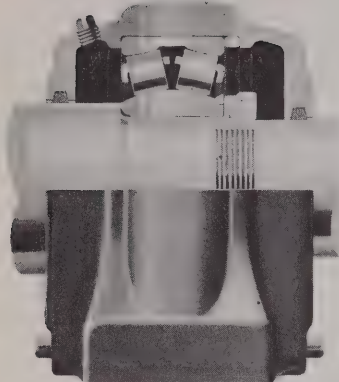
Floating block with spiral seals substitute LPKE for LPK

Floating block with felt seals substitute GPK for GPK

Closed end blocks (furnished at no extra charge) add suffix C

NEED HELP ON BEARINGS—CALL US

LINK-BELT PILLOW BLOCKS PRESS FIT TYPE ROLLER BEARING SELF-ALIGNING—SPLIT HOUSING



FIXED BEARING

FLOATING BEARING

HEAVY SERIES—GP-7800 FELT SEALED and LP-7800 SPIRAL SEALED

Bearing bore V	Shaft dia.		Pillow Block Number* Fixed Bearing Type		Bearing Used	A	B	C	E	F	G	H	K	L	P	S	T	U1	U2	W1	W2
	V1	V2	Felt sealed	Spiral sealed																	
3.1496	3 5/8	3	GP7880	LP7880	DE22216	3 1/2	10 5/16	13	3 1/2	3/4	...	1 1/4	5 1/4	7	9 5/16	1 7/16	5/8	1 3/8	1 3/8	27/32	21/32
3.1496	3 5/8	3	GP7880F	LP7880F	DE22216	3 1/2	10 5/16	13	3 1/2	3/4	2	1 1/4	5 1/4	7	9 5/16	1 7/16	5/8	1 3/8	1 3/8	27/32	21/32
3.3465	3 15/16	3 1/16	GP7885	LP7885	DE22217	3 3/4	10 7/16	13	3 1/2	3/4	...	1 1/4	5 1/4	7 1/16	9 29/32	1 5/16	17/32	1 3/8	1 3/8	29/32	25/32
3.3465	3 15/16	3 1/16	GP7885F	LP7885F	DE22217	3 3/4	10 7/16	13	3 1/2	3/4	2	1 1/4	5 1/4	7 1/16	9 29/32	1 5/16	17/32	1 3/8	1 3/8	29/32	25/32
3.5433	4 1/8	3 5/8	GP7890	LP7890	DE22218	4	11	13 3/4	3 3/8	3/4	...	1 5/16	5 7/8	7 1/16	10 19/32	1 1/2	21/32	1 15/16	1 15/16	31/32	25/32
3.5433	4 1/8	3 5/8	GP7890F	LP7890F	DE22218	4	11	13 3/4	3 3/8	3/4	2 1/8	1 5/16	5 7/8	7 1/16	10 19/32	1 1/2	21/32	1 15/16	1 15/16	31/32	25/32
3.9370	4 1/2	3 11/16	GP78100	LP78100	DE22220	4 1/2	12 3/8	15 1/4	4 3/8	3/4	...	1 1/2	6 1/2	8 7/8	11 27/32	1 5/8	51/64	1 5/8	1 5/8	29/32	25/32
3.9370	4 1/2	3 11/16	GP78100F	LP78100F	DE22220	4 1/2	12 3/8	15 1/4	4 3/8	3/4	2 1/8	1 1/2	6 1/2	8 7/8	11 27/32	1 5/8	51/64	1 5/8	1 5/8	29/32	25/32
4.3307	4 7/8	4 1/8	GP78110F	LP78110F	DE22222	4 5/16	13 1/8	16 1/2	4 3/4	3/4	2 3/4	1 5/8	7	9 3/4	13 1/2	1 11/16	27/32	1 7/8	1 7/8	1 1/4	1 1/4
4.7244	5 1/8	4 5/8	GP78120F	LP78120F	DE22224	5 1/4	13 3/8	16 1/2	4 3/4	3/4	2 3/4	1 3/4	7 1/8	10 1/16	14	1 3/8	27/32	1 7/8	1 7/8	1 1/4	1 1/4
5.1181	5 7/8	4 15/16	GP78130F	LP78130F	DE22226	6	15 1/8	18 1/2	5 1/8	1	3 1/4	1 7/8	7 3/4	11 11/16	15 15/32	1 5/8	55/64	2 5/8	2 1/8	1 3/8	1 3/8
5.1181	5 7/8	4 15/16	GP78130F	LP78130F	DE22226	6	15 1/8	18 1/2	5 1/8	1	3 1/4	1 7/8	7 3/4	11 11/16	15 15/32	1 5/8	55/64	2 5/8	2 1/8	1 3/8	1 3/8
5.9055	6 1/8	5 1/4	GP78150F	LP78150F	DE22230	6 5/16	17 1/8	21 1/4	6 1/4	1	3 3/4	2	8 1/2	12 11/16	17 5/8	1 5/8	51/64	2 3/4	2 3/4	1 5/8	1 5/8
6.2992	7 1/8	6 1/8	GP78160F	LP78160F	DE22232	6 11/16	18 1/8	22	6 1/4	1	3 3/4	2	8 1/2	13 1/2	18 5/8	1 5/8	47/64	2 3/4	2 3/4	1 5/8	1 5/8
6.2992	7 1/8	6 1/8	GP78170F	LP78170F	DE22234	7 1/16	20 1/2	24 3/4	6 3/4	1	4 1/4	2 1/8	9 1/4	14 3/8	19 9/16	2 3/8	51/64	2 3/4	2 3/4	1 5/8	1 5/8
7.0866	7 13/16	6 7/8	GP78180F	LP78180F	DE22236	7 1/2	22 1/4	26 3/4	7 1/8	1	4 5/8	2 3/8	9 5/8	15 1/16	20 11/32	2 3/8	7/8	2 3/4	2 3/4	1 5/8	1 5/8
7.4803	8 3/8	7 1/4	GP78190F	LP78190F	DE22238	7 7/8	23	28	7 1/2	1 1/4	4 1/2	2 3/8	10 1/4	15 1/16	21 3/16	2 3/8	1 1/2	2 3/4	2 3/4	1 5/8	1 5/8

EXTRA HEAVY SERIES—GP-7900 FELT SEALED and LP-7900 SPIRAL SEALED

Bearing bore V	Shaft dia.		Pillow Block Number* Fixed Bearing Type		Bearing Used	A	B	C	E	F	G	H	K	L	P	S	T	U1	U2	W1	W2
	V1	V2	Felt sealed	Spiral sealed																	
1.7717	2 1/8	1 11/16	GP7945	LP7945	DE22309	2 3/4	7 5/8	9 5/8	2 3/4	5/8	...	1	4 1/8	5 3/8	7 5/16	1 1/4	19/64	1 1/4	1 1/4	29/32	25/32
1.9685	2 5/8	1 7/8	GP7950	LP7950	DE22310	3	8 1/8	10 5/8	2 3/4	5/8	...	1 1/8	4 1/2	5 5/8	7 7/16	1 1/4	11/32	1 5/8	1 5/8	29/32	25/32
2.1654	2 5/8	2 1/16	GP7955	LP7955	DE22311	3 1/4	8 15/16	11	3 1/8	5/8	...	1 1/8	4 3/4	6 5/16	8 7/16	1 1/4	13/32	1 7/8	1 7/8	29/32	25/32
2.5591	3 1/16	2 1/16	GP7965	LP7965	DE22313	3 1/2	10 1/16	13	3 1/2	3/4	...	1 1/4	5 1/4	7	9 1/16	1 7/16	27/64	1 3/4	1 3/4	1 5/8	1 5/8
2.5591	3 1/16	2 1/16	GP7965F	LP7965F	DE22313	3 1/2	10 1/16	13	3 1/2	3/4	2	1 1/4	5 1/4	7	9 1/16	1 7/16	27/64	1 3/4	1 3/4	1 5/8	1 5/8
2.9528	3 1/16	2 13/16	GP7975	LP7975	DE22315	4	11	13 3/4	3 7/8	3/4	...	1 5/16	5 7/8	7 15/16	10 3/4	1 1/2	3/16	1 3/8	1 3/8	1 5/8	1 5/8
2.9528	3 1/16	2 13/16	GP7975F	LP7975F	DE22315	4	11	13 3/4	3 7/8	3/4	2 1/8	1 5/16	5 7/8	7 15/16	10 3/4	1 1/2	3/16	1 3/8	1 3/8	1 5/8	1 5/8
3.1496	3 5/8	3	GP7980	LP7980	DE22316	4 1/4	11 5/8	14 1/4	3 7/8	3/4	...	1 5/16	6 1/8	8 1/8	11 11/32	1 3/4	5/8	1 5/8	1 5/8	1 5/8	1 5/8
3.1496	3 5/8	3	GP7980F	LP7980F	DE22316	4 1/4	11 5/8	14 1/4	3 7/8	3/4	2 1/8	1 5/16	6 1/8	8 1/8	11 11/32	1 3/4	5/8	1 5/8	1 5/8	1 5/8	1 5/8
3.3465	3 15/16	3 1/16	GP7985	LP7985	DE22317	4 1/2	12 3/8	15 1/4	4 3/8	3/4	...	1 1/2	6 1/2	8 7/8	12 1/2	1 3/4	3/4	1 11/16	1 11/16	1 5/8	1 5/8
3.3465	3 15/16	3 1/16	GP7985F	LP7985F	DE22317	4 1/2	12 3/8	15 1/4	4 3/8	3/4	2 1/8	1 1/2	6 1/2	8 7/8	12 1/2	1 3/4	3/4	1 11/16	1 11/16	1 5/8	1 5/8
3.5433	4 1/8	3 5/8	GP7990F	LP7990F	DE22318	4 3/4	12 3/8	15 1/4	4 3/8	3/4	2 1/8	1 1/2	6 1/2	8 7/8	12 1/2	1 3/4	3/4	1 11/16	1 11/16	1 5/8	1 5/8
3.9370	4 1/2	3 11/16	GP79100F	LP79100F	DE22320	5 1/4	13 1/8	16 1/2	4 3/4	3/4	2 3/4	1 3/4	7 1/8	10 1/16	14 7/8	1 5/8	47/64	2 3/4	2 3/4	1 5/8	1 5/8
4.3307	4 7/8	4 1/8	GP79110F	LP79110F	DE22322	6	15 1/8	18 1/2	5 1/8	1	3 3/4	1 7/8	7 3/4	11 11/16	15 15/32	1 5/8	47/64	2 3/4	2 3/4	1 5/8	1 5/8
4.7244	5 1/8	4 5/8	GP79120F	LP79120F	DE22324	6 5/16	17 1/8	21 1/4	6 1/4	1	3 3/4	2	8 1/2	12 11/16	17 5/8	1 5/8	47/64	2 3/4	2 3/4	1 5/8	1 5/8
5.1181	5 7/8	4 15/16	GP79130F	LP79130F	DE22326	6 11/16	18 1/8	22	6 1/4	1	3 3/4	2	8 1/2	13 1/2	18 5/8	1 5/8	48/64	2 3/4	2 3/4	1 5/8	1 5/8
5.1181	5 7/8	4 15/16	GP79130F	LP79130F	DE22326	6 11/16	18 1/8	22	6 1/4	1	3 3/4	2	8 1/2	13 1/2	18 5/8	1 5/8	48/64	2 3/4	2 3/4	1 5/8	1 5/8
5.9055	6 1/8	5 1/4	GP79140F	LP79140F	DE22328	7 1/16	20 1/2	24 3/4	6 3/4	1	4 1/4	2 3/8	9 1/4	14 3/8	19 9/16	2 3/8	51/64	2 3/4	2 3/4	1 5/8	1 5/8
5.9055	6 1/8	5 1/4	GP79150F	LP79150F	DE22330	7 1/8	22 1/4	26 3/4	7 1/8	1	4 5/8	2 3/8	9 5/8	15 1/16	20 11/32	2 3/8	51/64	2 3/4	2 3/4	1 5/8	1 5/8
6.2992	7	6 1/8	GP79160F	LP79160F	DE22332	7 7/8	23	28	7 1/2	1 1/4	4 1/2	2 3/8	10 1/4	15 1/16	21 3/16	2 3/8	1 1/2	2 3/4	2 3/4	1 5/8	1 5/8

*Floating bearing felt sealed blocks, substitute prefix GPE for GP, as GPE7880, or GPE 7980.

*Floating bearings spiral sealed blocks, substitute prefix LPE for LP, as LPE7880, or LPE 7980.

Clamp plates, shaft locknuts and lockwashers are not furnished with the above model numbers, but are available if desired.

When ordering closed end units add suffix "C" to model number.

Suffix "F" in model numbers above designates four-bolt base.

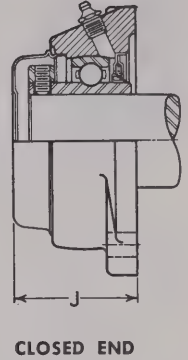
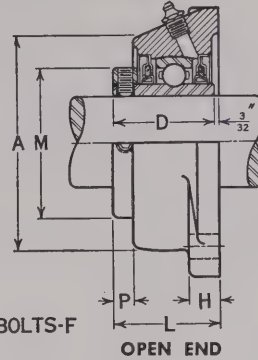
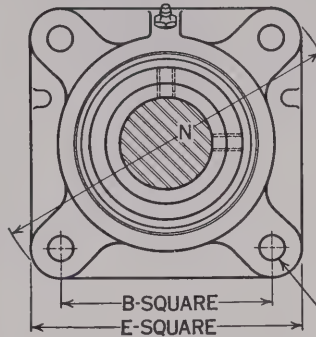
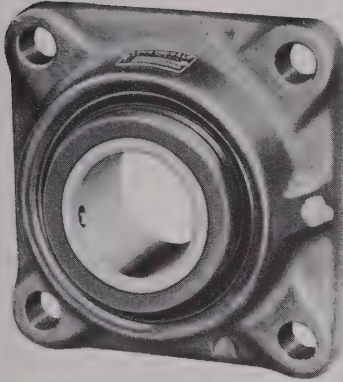
•Total axial movement of floating equals 3/8" (width of C-spacer).

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BALL BEARING SELF-ALIGNING FLANGE UNITS

LIGHT SERIES F-200, FIXED TYPE



† Shaft Diameter	Flanged Block Number	Bearing Assembly Used *	A	B	D	E	Δ F	H	J	L	M	N	P
5/8	F-210	U-210D	2 1/8	2 1/8	1 3/32	3	3/8	5/16	1 7/16	1 3/16	1 5/16	3 7/8	7/32
1 1/16	F-211	U-211D	2 1/8	2 1/8	1 3/32	3	3/8	5/16	1 7/16	1 3/16	1 5/16	3 7/8	7/32
3/4	F-212	U-212D	2 7/16	2 1/2	1 3/32	3 3/8	3/8	5/16	1 5/8	1 3/8	1 1/2	4 7/16	1/4
7/8	F-214	U-214D	2 11/16	2 3/4	1 23/64	3 3/4	7/16	1 1/32	1 45/64	1 29/64	1 3/4	4 15/16	1 7/64
1 5/16	F-215	U-215D	2 11/16	2 3/4	1 23/64	3 3/4	7/16	1 1/32	1 45/64	1 29/64	1 3/4	4 15/16	1 7/64
1	F-216	U-216D	2 11/16	2 3/4	1 23/64	3 3/4	7/16	1 1/32	1 45/64	1 29/64	1 3/4	4 15/16	1 7/64
1 1/8	F-218	U-218D	3 3/16	3 1/4	1 9/16	4 1/4	7/16	1/2	1 29/32	1 21/32	2 3/32	5 5/8	5/16
1 3/16	F-219	U-219D	3 3/16	3 1/4	1 9/16	4 1/4	7/16	1/2	1 29/32	1 21/32	2 3/32	5 5/8	5/16
1 1/4	F-2E20	U-2E20D	3 3/16	3 1/4	1 9/16	4 1/4	7/16	1/2	1 29/32	1 21/32	2 3/32	5 5/8	5/16
1 1/4	F-220	U-220D	3 5/8	3 5/8	1 3/4	4 5/8	1/2	9/16	2 3/16	1 27/32	2 7/16	6 1/8	2 7/64
1 5/16	F-221	U-221D	3 5/8	3 5/8	1 3/4	4 5/8	1/2	9/16	2 3/16	1 27/32	2 7/16	6 1/8	2 7/64
1 3/8	F-222	U-222D	3 5/8	3 5/8	1 3/4	4 5/8	1/2	9/16	2 3/16	1 27/32	2 7/16	6 1/8	2 7/64
1 7/16	F-223	U-223D	3 5/8	3 5/8	1 3/4	4 5/8	1/2	9/16	2 3/16	1 27/32	2 7/16	6 1/8	2 7/64
1 1/2	F-224	U-224D	4	4	1 29/32	5 1/8	1/2	9/16	2 19/64	2	2 11/16	6 13/16	7/16
1 5/8	F-226	U-226D	4 1/4	4 1/8	2 1/32	5 3/8	1/2	5/8	2 29/64	2 7/8	2 7/8	7 3/32	7/16
1 11/16	F-227	U-227D	4 1/4	4 1/8	2 1/32	5 3/8	1/2	5/8	2 29/64	2 7/8	2 7/8	7 3/32	7/16
1 3/4	F-228	U-228D	4 1/4	4 1/8	2 1/32	5 3/8	1/2	5/8	2 29/64	2 7/8	2 7/8	7 3/32	7/16
1 15/16	F-231	U-231D	4 1/2	4 3/8	2 3/32	5 5/8	1/2	5/8	2 33/64	2 3/16	3 1/8	7 7/16	1 3/32
2	F-232	U-232D	4 15/16	5 1/8	2 1/4	6 3/8	5/8	1 1/16	2 43/64	2 11/32	3 1/2	8 1/2	1 7/32
2 1/8	F-234	U-234D	4 15/16	5 1/8	2 1/4	6 3/8	5/8	1 1/16	2 43/64	2 11/32	3 1/2	8 1/2	1 7/32
2 3/16	F-235	U-235D	4 15/16	5 1/8	2 1/4	6 3/8	5/8	1 1/16	2 43/64	2 11/32	3 1/2	8 1/2	1 7/32
2 1/4	F-236	U-236D	5 3/8	5 5/8	2 1/2	6 7/8	5/8	1 1/16	2 59/64	2 19/32	3 25/32	9 7/32	1 9/32
2 7/16	F-239	U-239D	5 3/8	5 5/8	2 1/2	6 7/8	5/8	1 1/16	2 59/64	2 19/32	3 25/32	9 7/32	1 9/32
2 1/2	F-240	U-240D	5 7/8	5 7/8	2 11/16	7 7/8	5/8	3/4	3 11/64	2 25/32	4 3/16	9 13/16	5/8
2 11/16	F-243	U-243D	5 7/8	5 7/8	2 11/16	7 7/8	5/8	3/4	3 11/64	2 25/32	4 3/16	9 13/16	5/8
2 3/4	F-244	U-244D	6 3/8	6	2 7/8	7 3/4	3/4	3/4	3 23/64	2 31/32	4 5/8	10 1/4	1 11/16
2 15/16	F-247	U-247D	6 3/8	6	2 7/8	7 3/4	3/4	3/4	3 23/64	2 31/32	4 5/8	10 1/4	1 11/16
3 7/16	F-255	U-255D	7 1/2	6 3/4	3 9/16	8 9/16	3/4	1	4 1/32	3 21/32	5 3/16	11 23/64	3/4

Blocks are supplied with grease fittings, are greased and ready for operation.

Lubrication fitting tap sizes: for all Series F200 flanged blocks = 1/8 PT.

Bore Tolerances—Shaft Sizes 5/8" to 2 3/16" = +.0005" - .0000"; 2 1/4" to 2 15/16" = +.0006" - .0000".

When ordering closed end units add suffix "C" to model number. Example: F-210C.

* Number Covers Bearing, Collar with Set-Screws and two Seals.

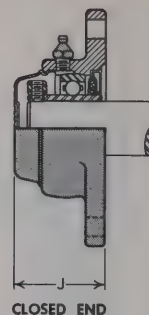
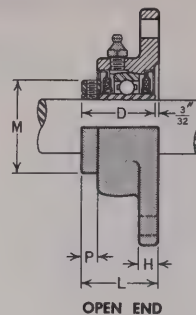
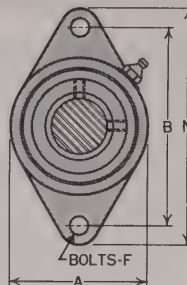
† Additional shaft sizes available: 1/2", 9/16", 1 1/16", 1 1/8", 1 1/4", 1 3/8", 1 1/2", 1 5/8", 1 3/4", 1 7/8", 2 1/8", 2 1/4", 2 3/8", 2 1/2", 2 5/8", 3", 3 1/2"

Δ Bolt holes are drilled 1/32" larger than bolt diameter.

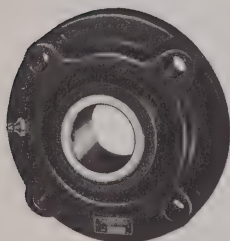
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LINK-BELT SELF-ALIGNING FLANGE UNITS
**FX200 BALL BEARING
FLANGED UNITS**

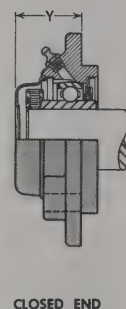
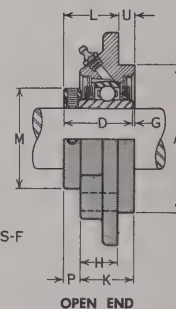
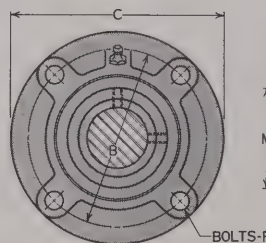
FX200 two-bolt flanges feature effective self-aligning seals, grease lubrication, machined flange faces, drilled bolt holes, and set screw type spring locking collars. They are supplied with grease fittings, are greased and ready for operation.



Shaft Diameter	Unit Number	A	B	D	F △	H	J	L	M	N	P
$\frac{3}{8}$ $\frac{11}{16}$	FX 210 FX 211	$2\frac{1}{8}$	3	$1\frac{3}{32}$	$\frac{3}{8}$	$\frac{5}{16}$	$1\frac{7}{16}$	$1\frac{3}{16}$	$1\frac{5}{16}$	$3\frac{7}{8}$	$\frac{7}{16}$
$\frac{3}{4}$	FX 212	$2\frac{7}{16}$	$3\frac{17}{32}$	$1\frac{9}{32}$	$\frac{3}{8}$	$\frac{3}{8}$	$1\frac{5}{8}$	$1\frac{3}{8}$	$1\frac{1}{2}$	$4\frac{7}{16}$	$\frac{1}{4}$
$\frac{7}{8}$ $\frac{15}{16}$ 1	FX 214 FX 215 FX 216	$2\frac{11}{16}$	$3\frac{57}{64}$	$1\frac{25}{64}$	$\frac{7}{16}$	$\frac{13}{32}$	$1\frac{45}{64}$	$1\frac{29}{64}$	$1\frac{3}{4}$	$4\frac{15}{16}$	$1\frac{7}{64}$
$1\frac{1}{8}$ $1\frac{1}{4}$ $1\frac{3}{8}$	FX 218 FX 219 FX 2E20	$3\frac{3}{16}$	$4\frac{19}{32}$	$1\frac{9}{16}$	$\frac{7}{16}$	$\frac{1}{2}$	$1\frac{29}{32}$	$1\frac{21}{32}$	$2\frac{5}{32}$	$5\frac{5}{8}$	$\frac{3}{8}$
$1\frac{1}{2}$ $1\frac{5}{8}$ $1\frac{3}{4}$ $1\frac{7}{8}$	FX 220 FX 221 FX 222 FX 223	$3\frac{5}{8}$	$5\frac{1}{8}$	$1\frac{3}{4}$	$\frac{1}{2}$	$\frac{9}{16}$	$2\frac{5}{16}$	$1\frac{27}{32}$	$2\frac{7}{16}$	$6\frac{3}{8}$	$2\frac{7}{64}$
$1\frac{1}{2}$	FX 224	4	$5\frac{21}{32}$	$1\frac{29}{32}$	$\frac{1}{2}$	$\frac{9}{16}$	$2\frac{19}{64}$	2	$2\frac{11}{16}$	$6\frac{13}{16}$	$\frac{7}{16}$

**FC-200 BALL BEARING
FLANGE CARTRIDGE
UNITS**


FC200 four-bolt flanged cartridge blocks are designed with a cylindrical machined surface serving as a pilot for accurately locating the unit and carrying the load, and are ideal for mounting on cast or welded machine frames.



Shaft Diameter, Inches	Flanged Cartridge Block Number	A □	B	C	D	F △	G	H	K	L	M	P	U	Y
$\frac{7}{8}$ $\frac{15}{16}$	FC 214 FC 215	3.000 3.000	$3\frac{5}{8}$ $3\frac{5}{8}$	$4\frac{3}{8}$ $4\frac{3}{8}$	$1\frac{25}{64}$ $1\frac{25}{64}$	$\frac{3}{8}$ $\frac{3}{8}$	...	$\frac{5}{16}$ $\frac{5}{16}$	$1\frac{1}{8}$ $1\frac{1}{8}$	$\frac{55}{64}$ $\frac{55}{64}$	$1\frac{3}{4}$ $1\frac{3}{4}$	$\frac{15}{64}$ $\frac{15}{64}$	$\frac{1}{8}$ $\frac{1}{8}$	$1\frac{7}{64}$ $1\frac{7}{64}$
1 $1\frac{1}{8}$	FC 216 FC 218	3.000 3.375	$3\frac{5}{8}$ $4\frac{1}{8}$	$4\frac{3}{8}$ 5	$1\frac{25}{64}$ $1\frac{9}{16}$	$\frac{3}{8}$ $\frac{7}{16}$	...	$\frac{5}{16}$ $\frac{15}{16}$	$1\frac{1}{8}$ $1\frac{15}{64}$	$\frac{55}{64}$ $1\frac{9}{64}$	$1\frac{3}{4}$ $2\frac{5}{32}$	$\frac{15}{64}$ $\frac{21}{64}$	$\frac{1}{8}$ $\frac{27}{64}$	$1\frac{7}{64}$ $1\frac{15}{32}$
$1\frac{1}{8}$ $1\frac{1}{4}$ $1\frac{3}{8}$	FC 219 FC 2E20 FC 220 FC 223	3.375 3.375 3.625 3.625	$4\frac{1}{8}$ $4\frac{1}{8}$ $4\frac{5}{8}$ $4\frac{5}{8}$	5 5 $5\frac{1}{4}$ $5\frac{1}{4}$	$1\frac{9}{16}$ $1\frac{9}{16}$ $1\frac{3}{4}$ $1\frac{3}{4}$	$\frac{7}{16}$ $\frac{7}{16}$ $\frac{7}{16}$ $\frac{7}{16}$	...	$\frac{13}{16}$ $\frac{13}{16}$ $\frac{5}{16}$ $\frac{5}{16}$	$1\frac{15}{64}$ $1\frac{15}{64}$ $1\frac{17}{32}$ $1\frac{17}{32}$	$1\frac{9}{64}$ $1\frac{9}{64}$ $1\frac{31}{64}$ $1\frac{31}{64}$	$2\frac{5}{32}$ $2\frac{5}{32}$ $2\frac{7}{16}$ $2\frac{7}{16}$	$\frac{21}{64}$ $\frac{21}{64}$ $\frac{27}{64}$ $\frac{27}{64}$	$\frac{27}{64}$ $\frac{27}{64}$ $\frac{15}{32}$ $\frac{15}{32}$	$1\frac{13}{32}$ $1\frac{13}{32}$ $1\frac{47}{64}$ $1\frac{47}{64}$
$1\frac{1}{2}$ $1\frac{5}{8}$ $1\frac{3}{4}$ $1\frac{7}{8}$	FC2-224 FC 226 FC 227 FC 228	3.625 4.250 4.250 4.250	$4\frac{5}{8}$ $5\frac{1}{8}$ $5\frac{1}{8}$ $5\frac{7}{8}$	$5\frac{1}{4}$ $6\frac{1}{8}$ $6\frac{1}{8}$ $6\frac{1}{8}$	$1\frac{29}{32}$ $2\frac{1}{32}$ $2\frac{1}{32}$ $2\frac{1}{32}$	$\frac{7}{16}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$	...	$\frac{11}{32}$ $\frac{11}{32}$ $\frac{11}{32}$ $\frac{11}{32}$	$1\frac{1}{2}$ $1\frac{17}{32}$ $1\frac{17}{32}$ $1\frac{17}{32}$	$1\frac{15}{32}$ $\frac{19}{16}$ $\frac{19}{16}$ $\frac{19}{16}$	$2\frac{11}{16}$ $2\frac{1}{8}$ $2\frac{1}{8}$ $2\frac{1}{8}$	$\frac{7}{16}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$	$\frac{15}{32}$ $\frac{15}{32}$ $\frac{15}{32}$ $\frac{15}{32}$	$1\frac{49}{64}$ $1\frac{7}{8}$ $1\frac{7}{8}$ $1\frac{7}{8}$
$1\frac{7}{8}$ $1\frac{15}{16}$ 2 $2\frac{1}{8}$	FC 230 FC 231 FC2-232 FC 235	4.500 4.500 4.500 5.000	$5\frac{3}{8}$ $5\frac{3}{8}$ $5\frac{3}{8}$ 6	$6\frac{1}{8}$ $6\frac{1}{8}$ $6\frac{1}{8}$ $7\frac{1}{8}$	$2\frac{3}{32}$ $2\frac{3}{32}$ $2\frac{1}{2}$ $2\frac{1}{4}$	$\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{9}{16}$	$\frac{11}{64}$ $\frac{11}{64}$ $\frac{1}{32}$ $\frac{5}{32}$	$1\frac{13}{64}$ $1\frac{13}{64}$ $1\frac{21}{32}$ 1	$\frac{53}{64}$ $\frac{53}{64}$ $1\frac{21}{32}$ $1\frac{7}{8}$	$1\frac{41}{64}$ $1\frac{41}{64}$ $1\frac{21}{32}$ $1\frac{17}{32}$	$3\frac{1}{8}$ $3\frac{1}{8}$ $3\frac{1}{2}$ $3\frac{1}{2}$	$\frac{7}{16}$ $\frac{7}{16}$ $\frac{7}{8}$ $\frac{17}{32}$	$\frac{5}{8}$ $\frac{5}{8}$ $\frac{5}{8}$ $\frac{7}{8}$	$1\frac{31}{32}$ $1\frac{31}{32}$ $1\frac{63}{64}$ $1\frac{55}{64}$
$2\frac{1}{4}$ $2\frac{7}{16}$ $2\frac{11}{16}$ $2\frac{15}{16}$	FC 236 FC 239 FC 243 FC 247	5.500 5.500 6.375 6.375	$6\frac{1}{8}$ $6\frac{1}{8}$ $7\frac{1}{8}$ $7\frac{1}{2}$	$7\frac{5}{8}$ $7\frac{5}{8}$ $8\frac{3}{4}$ $8\frac{3}{4}$	$2\frac{1}{2}$ $2\frac{1}{2}$ $2\frac{11}{16}$ $2\frac{7}{8}$	$\frac{9}{16}$ $\frac{9}{16}$ $\frac{5}{8}$ $\frac{5}{8}$	...	1 1 $\frac{13}{16}$ $\frac{1}{16}$	$1\frac{7}{8}$ $1\frac{7}{8}$ $2\frac{1}{4}$ $2\frac{1}{16}$	$1\frac{5}{8}$ $1\frac{5}{8}$ $1\frac{11}{16}$ $1\frac{11}{16}$	$3\frac{3}{32}$ $3\frac{3}{32}$ $4\frac{1}{8}$ $4\frac{1}{8}$	$\frac{5}{8}$ $\frac{5}{8}$ $\frac{5}{8}$ $\frac{5}{8}$	$\frac{7}{8}$ $\frac{7}{8}$ $1\frac{1}{16}$ $1\frac{1}{4}$	$1\frac{57}{64}$ $1\frac{57}{64}$ $2\frac{11}{64}$ $2\frac{13}{64}$
3 $3\frac{3}{16}$ $3\frac{1}{2}$ $3\frac{5}{8}$ 4	FC 2E48 FC 255 FC 2E56 FC 263 FC 2E64	6.375 7.375 7.375 8.120 8.120	$7\frac{1}{8}$ $8\frac{3}{8}$ $8\frac{3}{8}$ $9\frac{3}{8}$ $9\frac{3}{8}$	$8\frac{3}{4}$ $10\frac{1}{4}$ $10\frac{1}{4}$ $10\frac{1}{8}$ $10\frac{1}{8}$	$2\frac{3}{8}$ $3\frac{9}{16}$ $3\frac{9}{16}$ $4\frac{1}{4}$ $4\frac{1}{4}$	$\frac{5}{8}$ $\frac{3}{4}$ $\frac{3}{4}$ $\frac{3}{4}$ $\frac{3}{4}$	$\frac{3}{16}$...	$1\frac{1}{16}$ $1\frac{1}{8}$ $1\frac{1}{8}$ $2\frac{1}{8}$ $2\frac{1}{8}$	$2\frac{5}{8}$ $2\frac{29}{32}$ $2\frac{29}{32}$ $3\frac{1}{4}$ $3\frac{1}{4}$	$1\frac{11}{16}$ $2\frac{15}{32}$ $2\frac{15}{32}$ $3\frac{1}{8}$ $3\frac{1}{8}$	$4\frac{5}{8}$ $5\frac{1}{8}$ $5\frac{1}{8}$ $5\frac{1}{16}$ $5\frac{1}{16}$	$\frac{3}{4}$ $\frac{3}{4}$ $\frac{3}{4}$ 1 1	$1\frac{1}{4}$ $1\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{1}{2}$ $1\frac{1}{2}$	$2\frac{13}{64}$ $2\frac{25}{64}$ $2\frac{25}{64}$ $3\frac{3}{16}$ $3\frac{3}{16}$

When ordering closed end units add suffix "C" to model number.
Lubrication fitting tap size: all sizes— $\frac{1}{4}$ PT.

□ Tolerance +.000" —.002". Bore tolerance for mounting +.002" —.000".
△ Bolt holes drilled $\frac{1}{64}$ " larger than bolt diameter.

NEED HELP ON BEARINGS—CALL US

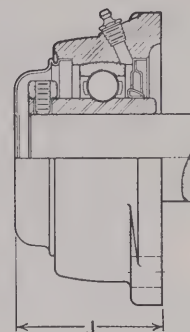
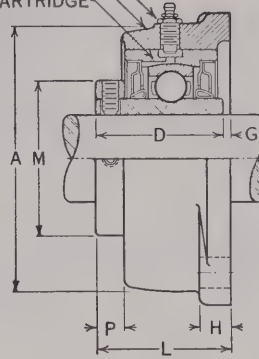
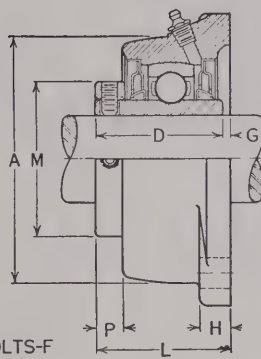
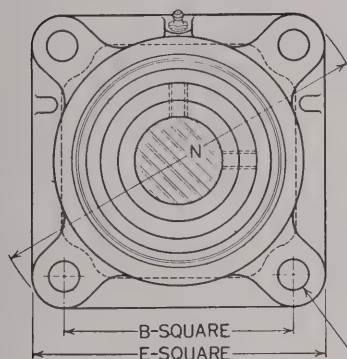
LINK-BELT

BALL BEARING, SELF-ALIGNING FLANGE UNIT

MEDIUM SERIES F-300, FE-300

Fixed or Floating Types

LOCKING PLUG
HOUSING
CARTRIDGE



Fixed Bearing
Open End

Floating Bearing
Open End

Fixed Bearing
Closed End

When ordering closed end units add suffix
"C" to model number. Example: F-310C.

Shaft Dia.	Fixed Brg. Flgd. Block No.	Floating Brg. Flgd. Block No.	Bear- ing assem- bly used *	A		B	D	E	F $\oplus$	G	H	J	L	M	N	P	Total Axial Float
				With Fixed Brg.	With Float- ing Brg.												
$\frac{5}{8}$	F-310	FE-310	U310D	$2\frac{5}{8}$	$2\frac{7}{8}$	$2\frac{3}{4}$	$1\frac{21}{64}$	$3\frac{3}{4}$	$\frac{7}{16}$	$\frac{1}{8}$	$\frac{7}{16}$	$1\frac{23}{32}$	$1\frac{29}{64}$	$1\frac{7}{16}$	$4\frac{29}{32}$	$\frac{7}{32}$	$\frac{1}{8}$
$\frac{11}{16}$	F-311	FE-311	U311D	$2\frac{5}{8}$	$2\frac{7}{8}$	$2\frac{3}{4}$	$1\frac{21}{64}$	$3\frac{3}{4}$	$\frac{7}{16}$	$\frac{1}{8}$	$\frac{7}{16}$	$1\frac{23}{32}$	$1\frac{29}{64}$	$1\frac{7}{16}$	$4\frac{29}{32}$	$\frac{7}{32}$	$\frac{1}{8}$
$\frac{3}{4}$	F-312	FE-312	U312D	$2\frac{3}{4}$	$3\frac{1}{16}$	$2\frac{7}{8}$	$1\frac{15}{32}$	$3\frac{7}{8}$	$\frac{7}{16}$	$\frac{1}{8}$	$\frac{1}{2}$	$1\frac{53}{64}$	$1\frac{19}{32}$	$1\frac{5}{8}$	$5\frac{3}{32}$	$1\frac{13}{64}$	$\frac{1}{8}$
$\frac{7}{8}$	F-314	FE-314	U314D	$3\frac{1}{4}$	$3\frac{11}{16}$	$3\frac{1}{2}$	$1\frac{13}{64}$	$4\frac{5}{8}$	$\frac{1}{2}$	$\frac{1}{8}$	$\frac{9}{16}$	$2\frac{3}{64}$	$1\frac{51}{64}$	2	$6\frac{1}{16}$	$1\frac{19}{64}$	$\frac{1}{8}$
$1\frac{1}{16}$	F-315	FE-315	U315D	$3\frac{3}{4}$	$3\frac{11}{16}$	$3\frac{1}{2}$	$1\frac{13}{64}$	$4\frac{5}{8}$	$\frac{1}{2}$	$\frac{1}{8}$	$\frac{9}{16}$	$2\frac{3}{64}$	$1\frac{51}{64}$	2	$6\frac{1}{16}$	$1\frac{19}{64}$	$\frac{1}{8}$
1	F-316	FE-316	U316D	$3\frac{1}{4}$	$3\frac{11}{16}$	$3\frac{1}{2}$	$1\frac{13}{64}$	$4\frac{5}{8}$	$\frac{1}{2}$	$\frac{1}{8}$	$\frac{9}{16}$	$2\frac{3}{64}$	$1\frac{51}{64}$	2	$6\frac{1}{16}$	$1\frac{19}{64}$	$\frac{1}{8}$
$1\frac{1}{8}$	F-318	FE-318	U318D	$3\frac{5}{8}$	$4\frac{1}{8}$	$3\frac{13}{16}$	$1\frac{59}{64}$	$4\frac{15}{16}$	$\frac{1}{2}$	$\frac{1}{8}$	$\frac{5}{8}$	$2\frac{5}{16}$	$2\frac{3}{64}$	$2\frac{5}{16}$	$6\frac{17}{32}$	$2\frac{25}{64}$	$\frac{1}{8}$
$1\frac{1}{16}$	F-319	FE-319	U319D	$3\frac{5}{8}$	$4\frac{1}{8}$	$3\frac{13}{16}$	$1\frac{59}{64}$	$4\frac{15}{16}$	$\frac{1}{2}$	$\frac{1}{8}$	$\frac{5}{8}$	$2\frac{5}{16}$	$2\frac{3}{64}$	$2\frac{5}{16}$	$6\frac{17}{32}$	$2\frac{25}{64}$	$\frac{1}{8}$
$1\frac{1}{4}$	F-320	FE-320	U320D	$4\frac{1}{16}$	$4\frac{15}{32}$	4	$2\frac{3}{32}$	$5\frac{1}{8}$	$\frac{1}{2}$	$\frac{5}{32}$	$\frac{5}{8}$	$2\frac{1}{2}$	$2\frac{1}{4}$	$2\frac{9}{16}$	$6\frac{25}{32}$	$\frac{7}{16}$	$\frac{9}{32}$
$1\frac{3}{16}$	F-321	FE-321	U321D	$4\frac{1}{16}$	$4\frac{15}{32}$	4	$2\frac{3}{32}$	$5\frac{1}{8}$	$\frac{1}{2}$	$\frac{5}{32}$	$\frac{5}{8}$	$2\frac{1}{2}$	$2\frac{1}{4}$	$2\frac{9}{16}$	$6\frac{25}{32}$	$\frac{7}{16}$	$\frac{9}{32}$
$1\frac{3}{8}$	F-322	FE-322	U322D	$4\frac{1}{16}$	$4\frac{15}{32}$	4	$2\frac{3}{32}$	$5\frac{1}{8}$	$\frac{1}{2}$	$\frac{5}{32}$	$\frac{5}{8}$	$2\frac{1}{2}$	$2\frac{1}{4}$	$2\frac{9}{16}$	$6\frac{25}{32}$	$\frac{7}{16}$	$\frac{9}{32}$
$1\frac{1}{2}$	F-323	FE-323	U323D	$4\frac{1}{16}$	$4\frac{15}{32}$	4	$2\frac{3}{32}$	$5\frac{1}{8}$	$\frac{1}{2}$	$\frac{5}{32}$	$\frac{5}{8}$	$2\frac{1}{2}$	$2\frac{1}{4}$	$2\frac{9}{16}$	$6\frac{25}{32}$	$\frac{7}{16}$	$\frac{9}{32}$
$1\frac{5}{8}$	F-324	FE-324	U324D	$4\frac{9}{16}$	5	$4\frac{5}{8}$	$2\frac{5}{16}$	6	$\frac{5}{8}$	$\frac{5}{8}$	$\frac{5}{8}$	$2\frac{11}{16}$	$2\frac{3}{4}$	$3\frac{1}{16}$	$7\frac{15}{16}$	$1\frac{1}{2}$	$\frac{3}{16}$
$1\frac{5}{16}$	F-326	FE-326	U326D	5	$5\frac{1}{2}$	$4\frac{7}{8}$	$2\frac{19}{32}$	$6\frac{1}{4}$	$\frac{5}{8}$	$\frac{5}{8}$	$\frac{11}{16}$	$3\frac{5}{64}$	$2\frac{3}{4}$	$3\frac{1}{4}$	$8\frac{9}{32}$	$3\frac{5}{64}$	$\frac{3}{16}$
$1\frac{1}{4}$	F-327	FE-327	U327D	5	$5\frac{1}{2}$	$4\frac{7}{8}$	$2\frac{19}{32}$	$6\frac{1}{4}$	$\frac{5}{8}$	$\frac{5}{8}$	$\frac{11}{16}$	$3\frac{5}{64}$	$2\frac{3}{4}$	$3\frac{1}{4}$	$8\frac{9}{32}$	$3\frac{5}{64}$	$\frac{3}{16}$
$1\frac{3}{4}$	F-328	FE-328	U328D	5	$5\frac{1}{2}$	$4\frac{7}{8}$	$2\frac{19}{32}$	$6\frac{1}{4}$	$\frac{5}{8}$	$\frac{5}{8}$	$\frac{11}{16}$	$3\frac{5}{64}$	$2\frac{3}{4}$	$3\frac{1}{4}$	$8\frac{9}{32}$	$3\frac{5}{64}$	$\frac{3}{16}$
$1\frac{5}{16}$	F-331	FE-331	U331D	$5\frac{1}{2}$	$5\frac{15}{16}$	$5\frac{1}{8}$	$2\frac{13}{16}$	$6\frac{1}{2}$	$\frac{5}{8}$	$\frac{5}{8}$	$\frac{11}{16}$	$3\frac{17}{64}$	$2\frac{31}{32}$	$3\frac{7}{16}$	$8\frac{5}{8}$	$3\frac{37}{64}$	$\frac{3}{16}$
2	F-332	FE-332	U332D	6	$6\frac{3}{8}$	$5\frac{3}{4}$	$3\frac{1}{16}$	$7\frac{5}{16}$	$\frac{3}{4}$	$\frac{5}{8}$	$\frac{3}{4}$	$3\frac{5}{8}$	$3\frac{7}{32}$	$3\frac{15}{16}$	$9\frac{23}{32}$	$2\frac{1}{32}$	$\frac{3}{16}$
$2\frac{1}{8}$	F-334	FE-334	U334D	6	$6\frac{3}{8}$	$5\frac{3}{4}$	$3\frac{1}{16}$	$7\frac{5}{16}$	$\frac{3}{4}$	$\frac{5}{8}$	$\frac{3}{4}$	$3\frac{5}{8}$	$3\frac{7}{32}$	$3\frac{15}{16}$	$9\frac{23}{32}$	$2\frac{1}{32}$	$\frac{3}{16}$
$2\frac{3}{16}$	F-335	FE-335	U335D	6	$6\frac{3}{8}$	$5\frac{3}{4}$	$3\frac{1}{16}$	$7\frac{5}{16}$	$\frac{3}{4}$	$\frac{5}{8}$	$\frac{3}{4}$	$3\frac{5}{8}$	$3\frac{7}{32}$	$3\frac{15}{16}$	$9\frac{23}{32}$	$2\frac{1}{32}$	$\frac{3}{16}$
$2\frac{1}{4}$	F-336	FE-336	U336D	$6\frac{3}{8}$	$6\frac{13}{16}$	6	$3\frac{5}{16}$	$7\frac{5}{8}$	$\frac{3}{4}$	$\frac{5}{8}$	$\frac{3}{4}$	$3\frac{51}{64}$	$3\frac{15}{32}$	$4\frac{3}{16}$	$10\frac{1}{8}$	$2\frac{1}{32}$	$\frac{3}{16}$
$2\frac{1}{16}$	F-339	FE-339	U339D	$6\frac{3}{8}$	$6\frac{13}{16}$	6	$3\frac{5}{16}$	$7\frac{5}{8}$	$\frac{3}{4}$	$\frac{5}{8}$	$\frac{3}{4}$	$3\frac{51}{64}$	$3\frac{15}{32}$	$4\frac{3}{16}$	$10\frac{1}{8}$	$2\frac{1}{32}$	$\frac{3}{16}$
$2\frac{1}{2}$	F-343	FE-343	U343D	$7\frac{5}{16}$	$7\frac{3}{4}$	7	$3\frac{13}{16}$	$8\frac{7}{8}$	$\frac{7}{8}$	$\frac{5}{8}$	$\frac{7}{8}$	$4\frac{23}{64}$	$3\frac{31}{32}$	$4\frac{3}{4}$	$11\frac{25}{32}$	$3\frac{3}{4}$	$\frac{1}{4}$
$2\frac{3}{4}$	F-344	FE-344	U344D	$7\frac{5}{16}$	$7\frac{3}{4}$	7	$3\frac{13}{16}$	$8\frac{7}{8}$	$\frac{7}{8}$	$\frac{5}{8}$	$\frac{7}{8}$	$4\frac{23}{64}$	$3\frac{31}{32}$	$4\frac{3}{4}$	$11\frac{25}{32}$	$3\frac{3}{4}$	$\frac{1}{4}$
$2\frac{15}{16}$	F-347	FE-347	U347D	$7\frac{7}{8}$	$8\frac{1}{4}$	$7\frac{1}{4}$	$4\frac{3}{8}$	$9\frac{1}{16}$	$\frac{7}{8}$	$\frac{7}{8}$	$\frac{7}{8}$	$4\frac{49}{64}$	$4\frac{5}{16}$	$4\frac{5}{16}$	$12\frac{1}{16}$	$\frac{3}{4}$	$\frac{1}{4}$
$3\frac{7}{16}$	F-355	FE-355	U355D	$9\frac{1}{4}$	$9\frac{7}{8}$	$8\frac{1}{2}$	$4\frac{15}{16}$	11	1	$\frac{7}{32}$	$1\frac{1}{4}$	$5\frac{35}{64}$	$5\frac{5}{32}$	6	$14\frac{9}{16}$	1	$\frac{1}{4}$
$3\frac{1}{2}$	F-356	FE-356	U356D	$9\frac{1}{4}$	$9\frac{7}{8}$	$8\frac{1}{2}$	$4\frac{15}{16}$	11	1	$\frac{7}{32}$	$1\frac{1}{4}$	$5\frac{35}{64}$	$5\frac{5}{32}$	6	$14\frac{9}{16}$	1	$\frac{1}{4}$
$3\frac{15}{16}$	F-363	FE-363	U363D	$10\frac{3}{8}$	$10\frac{15}{16}$	$9\frac{1}{2}$	$5\frac{9}{16}$	$12\frac{1}{8}$	$1\frac{1}{8}$	$\frac{7}{32}$	$1\frac{3}{8}$	$6\frac{11}{64}$	$5\frac{13}{16}$	7	$16\frac{1}{16}$	$1\frac{1}{8}$	$\frac{1}{4}$

Bore Tolerances—Shaft Sizes $\frac{5}{8}$ " to $2\frac{3}{16}$ " = +.0005" - .0000"; $2\frac{1}{4}$ " to $3\frac{15}{16}$ " = +.0006" - .0000"; $3\frac{7}{16}$ " to $3\frac{15}{16}$ " = +.0007" - .0000".

$\oplus$ Bolt holes are drilled $\frac{1}{16}$ " larger than bolt diameter.

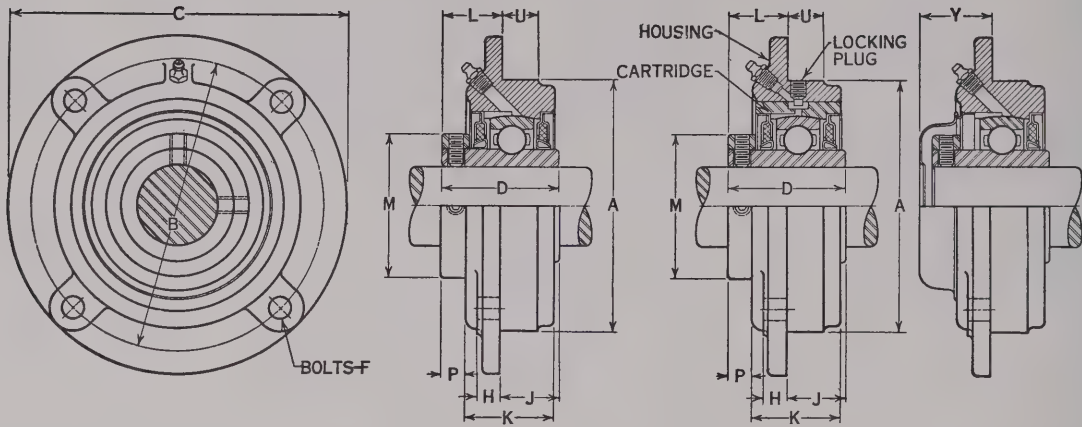
Increase weight 10% for blocks with floating bearings.

Blocks are supplied with grease fittings, are greased and ready for operation.

Lubrication fitting tap sizes: for F310 to F363 = $\frac{1}{8}$ PT; for FE310 to FE339 = $\frac{1}{4}$ -28 NF; for FE343 to FE363 = $\frac{1}{8}$ PT.

* Number Covers Bearing, Collar with Set-Screws and two Seals.

NEED HELP ON BEARINGS—CALL US

LINK-BELT**BALL BEARING SELF-ALIGNING FLANGE CARTRIDGE UNITS****MEDIUM SERIES FC-300, FCE-300****Fixed or Floating Types**

When ordering closed end units add suffix "C" to model number. Example: FC-310C.

FIXED BEARING
OPEN ENDFLOATING BEARING
OPEN ENDFIXED BEARING
CLOSED END

Shaft dia.	Fixed bearing flanged cartridge block	Floating bearing flanged cartridge block	Bearing assembly used *	A	B	C	D	F	H	J	K	L	M	P	U	Y	Total axial float
	No.	No.	No.														
$\frac{5}{8}$	FC 310	FCE 310	U310D	2.875	$3\frac{1}{2}$	$4\frac{1}{4}$	$12\frac{1}{64}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{3}{4}$	$1\frac{5}{64}$	$\frac{37}{64}$	$1\frac{7}{16}$	$1\frac{3}{64}$	$1\frac{1}{2}$	$1\frac{3}{16}$	$\frac{3}{16}$
$\frac{11}{16}$	FC 311	FCE 311	U311D	2.875	$3\frac{1}{2}$	$4\frac{1}{4}$	$12\frac{1}{64}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{3}{4}$	$1\frac{5}{64}$	$\frac{37}{64}$	$1\frac{7}{16}$	$1\frac{3}{64}$	$1\frac{1}{2}$	$1\frac{3}{16}$	$\frac{3}{16}$
$\frac{3}{4}$	FC 312	FCE 312	U312D	3.125	$3\frac{3}{4}$	$4\frac{1}{2}$	$11\frac{5}{32}$	$\frac{5}{16}$	$\frac{7}{16}$	$\frac{13}{16}$	$1\frac{7}{32}$	$\frac{21}{32}$	$1\frac{5}{8}$	$1\frac{3}{64}$	$1\frac{1}{2}$	$1\frac{5}{8}$	$\frac{3}{16}$
$\frac{7}{8}$	FC 314	FCE 314	U314D	3.688	$4\frac{1}{2}$	$5\frac{3}{8}$	$1\frac{43}{64}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{7}{8}$	$1\frac{5}{16}$	$\frac{51}{64}$	2	$1\frac{9}{64}$	$1\frac{5}{8}$	$1\frac{3}{64}$	$\frac{9}{64}$
$\frac{15}{16}$	FC 315	FCE 315	U315D	3.688	$4\frac{1}{2}$	$5\frac{3}{8}$	$1\frac{43}{64}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{7}{8}$	$1\frac{5}{16}$	$\frac{51}{64}$	2	$1\frac{9}{64}$	$1\frac{5}{8}$	$1\frac{3}{64}$	$\frac{9}{64}$
1	FC 316	FCE 316	U316D	3.688	$4\frac{1}{2}$	$5\frac{3}{8}$	$1\frac{43}{64}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{7}{8}$	$1\frac{5}{16}$	$\frac{51}{64}$	2	$1\frac{9}{64}$	$1\frac{5}{8}$	$1\frac{3}{64}$	$\frac{9}{64}$
$1\frac{1}{8}$	FC 318	FCE 318	U318D	4.125	5	6	$1\frac{59}{64}$	$\frac{7}{16}$	$\frac{7}{16}$	$\frac{31}{32}$	$1\frac{7}{16}$	$\frac{61}{64}$	$2\frac{5}{16}$	$2\frac{5}{64}$	$1\frac{7}{8}$	$1\frac{7}{8}$	$\frac{9}{64}$
$1\frac{3}{16}$	FC 319	FCE 319	U319D	4.125	5	6	$1\frac{59}{64}$	$\frac{7}{16}$	$\frac{7}{16}$	$\frac{31}{32}$	$1\frac{7}{16}$	$\frac{61}{64}$	$2\frac{5}{16}$	$2\frac{5}{64}$	$1\frac{7}{8}$	$1\frac{7}{8}$	$\frac{9}{64}$
$1\frac{1}{4}$	FC 320	FCE 320	U320D	4.500	$5\frac{3}{8}$	$6\frac{3}{8}$	$2\frac{3}{32}$	$\frac{7}{16}$	$\frac{7}{16}$	$1\frac{13}{32}$	$1\frac{7}{16}$	1	$2\frac{9}{16}$	$2\frac{7}{16}$	$1\frac{5}{8}$	$1\frac{1}{4}$	$\frac{1}{4}$
$1\frac{5}{16}$	FC 321	FCE 321	U321D	4.500	$5\frac{3}{8}$	$6\frac{3}{8}$	$2\frac{3}{32}$	$\frac{7}{16}$	$\frac{7}{16}$	$1\frac{13}{32}$	$1\frac{7}{16}$	1	$2\frac{9}{16}$	$2\frac{7}{16}$	$1\frac{5}{8}$	$1\frac{1}{4}$	$\frac{1}{4}$
$1\frac{3}{8}$	FC 322	FCE 322	U322D	4.500	$5\frac{3}{8}$	$6\frac{3}{8}$	$2\frac{3}{32}$	$\frac{7}{16}$	$\frac{7}{16}$	$1\frac{13}{32}$	$1\frac{7}{16}$	1	$2\frac{9}{16}$	$2\frac{7}{16}$	$1\frac{5}{8}$	$1\frac{1}{4}$	$\frac{1}{4}$
$1\frac{7}{16}$	FC 323	FCE 323	U323D	4.500	$5\frac{3}{8}$	$6\frac{3}{8}$	$2\frac{3}{32}$	$\frac{7}{16}$	$\frac{7}{16}$	$1\frac{13}{32}$	$1\frac{7}{16}$	1	$2\frac{9}{16}$	$2\frac{7}{16}$	$1\frac{5}{8}$	$1\frac{1}{4}$	$\frac{1}{4}$
$1\frac{1}{2}$	FC 324	FCE 324	U324D	5.000	6	$7\frac{1}{8}$	$2\frac{5}{16}$	$\frac{1}{2}$	$\frac{1}{2}$	$1\frac{11}{64}$	$1\frac{9}{64}$	$1\frac{9}{64}$	$3\frac{1}{16}$	$3\frac{5}{64}$	$1\frac{5}{8}$	$1\frac{1}{4}$	$\frac{1}{4}$
$1\frac{5}{8}$	FC 326	FCE 326	U326D	5.500	$6\frac{1}{2}$	$7\frac{5}{8}$	$2\frac{19}{32}$	$\frac{1}{2}$	$\frac{1}{2}$	$1\frac{19}{64}$	$1\frac{59}{64}$	$1\frac{19}{64}$	$3\frac{1}{4}$	$3\frac{35}{64}$	$1\frac{5}{8}$	$1\frac{1}{4}$	$\frac{1}{4}$
$1\frac{11}{16}$	FC 327	FCE 327	U327D	5.500	$6\frac{1}{2}$	$7\frac{5}{8}$	$2\frac{19}{32}$	$\frac{1}{2}$	$\frac{1}{2}$	$1\frac{19}{64}$	$1\frac{59}{64}$	$1\frac{19}{64}$	$3\frac{1}{4}$	$3\frac{35}{64}$	$1\frac{5}{8}$	$1\frac{1}{4}$	$\frac{1}{4}$
$1\frac{3}{4}$	FC 328	FCE 328	U328D	5.500	$6\frac{1}{2}$	$7\frac{5}{8}$	$2\frac{19}{32}$	$\frac{1}{2}$	$\frac{1}{2}$	$1\frac{19}{64}$	$1\frac{59}{64}$	$1\frac{19}{64}$	$3\frac{1}{4}$	$3\frac{35}{64}$	$1\frac{5}{8}$	$1\frac{1}{4}$	$\frac{1}{4}$
$1\frac{15}{16}$	FC 331	FCE 331	U331D	6.000	7	$8\frac{1}{8}$	$2\frac{13}{16}$	$\frac{1}{2}$	$\frac{9}{16}$	$1\frac{125}{64}$	$1\frac{27}{64}$	$1\frac{27}{64}$	$3\frac{7}{16}$	$3\frac{9}{16}$	$1\frac{7}{8}$	$1\frac{1}{4}$	$\frac{1}{4}$
2	FC 332	FCE 332	U332D	6.375	$7\frac{5}{8}$	9	$3\frac{1}{16}$	$\frac{5}{8}$	$\frac{5}{8}$	$1\frac{117}{32}$	$1\frac{29}{32}$	$1\frac{117}{32}$	$3\frac{15}{16}$	$3\frac{21}{32}$	$1\frac{7}{8}$	$1\frac{1}{4}$	$\frac{1}{4}$
$2\frac{1}{8}$	FC 334	FCE 334	U334D	6.375	$7\frac{5}{8}$	9	$3\frac{1}{16}$	$\frac{5}{8}$	$\frac{5}{8}$	$1\frac{117}{32}$	$1\frac{29}{32}$	$1\frac{117}{32}$	$3\frac{15}{16}$	$3\frac{21}{32}$	$1\frac{7}{8}$	$1\frac{1}{4}$	$\frac{1}{4}$
$2\frac{3}{16}$	FC 335	FCE 335	U335D	6.375	$7\frac{5}{8}$	9	$3\frac{1}{16}$	$\frac{5}{8}$	$\frac{5}{8}$	$1\frac{117}{32}$	$1\frac{29}{32}$	$1\frac{117}{32}$	$3\frac{15}{16}$	$3\frac{21}{32}$	$1\frac{7}{8}$	$1\frac{1}{4}$	$\frac{1}{4}$
$2\frac{1}{4}$	FC 336	FCE 336	U336D	6.875	$8\frac{1}{8}$	$9\frac{1}{2}$	$3\frac{5}{16}$	$\frac{5}{8}$	$\frac{5}{8}$	$1\frac{111}{16}$	$1\frac{215}{32}$	$1\frac{15}{8}$	$4\frac{3}{16}$	$4\frac{21}{32}$	$1\frac{5}{8}$	$1\frac{1}{4}$	$\frac{1}{4}$
$2\frac{7}{16}$	FC 339	FCE 339	U339D	6.875	$8\frac{1}{8}$	$9\frac{1}{2}$	$3\frac{5}{16}$	$\frac{5}{8}$	$\frac{5}{8}$	$1\frac{111}{16}$	$1\frac{215}{32}$	$1\frac{15}{8}$	$4\frac{3}{16}$	$4\frac{21}{32}$	$1\frac{5}{8}$	$1\frac{1}{4}$	$\frac{1}{4}$
$2\frac{11}{16}$	FC 343	FCE 343	U343D	7.750	9	$10\frac{3}{8}$	$3\frac{13}{16}$	$\frac{5}{8}$	$\frac{3}{4}$	$1\frac{115}{16}$	$1\frac{227}{32}$	$1\frac{17}{8}$	$4\frac{3}{4}$	$4\frac{25}{32}$	$1\frac{1}{8}$	$1\frac{1}{4}$	$\frac{13}{32}$
$2\frac{3}{4}$	FC 344	FCE 344	U344D	7.750	9	$10\frac{3}{8}$	$3\frac{13}{16}$	$\frac{5}{8}$	$\frac{3}{4}$	$1\frac{115}{16}$	$1\frac{227}{32}$	$1\frac{17}{8}$	$4\frac{3}{4}$	$4\frac{25}{32}$	$1\frac{1}{8}$	$1\frac{1}{4}$	$\frac{13}{32}$
$2\frac{15}{16}$	FC 347	FCE 347	U347D	8.250	$9\frac{1}{2}$	$10\frac{7}{8}$	$4\frac{3}{32}$	$\frac{5}{8}$	$\frac{3}{4}$	$1\frac{23}{32}$	$1\frac{3}{8}$	2	$4\frac{15}{16}$	$4\frac{3}{4}$	$1\frac{1}{8}$	$1\frac{1}{4}$	$\frac{13}{32}$
$3\frac{7}{16}$	FC 355	FCE 355	U355D	9.875	$11\frac{3}{8}$	$12\frac{7}{8}$	$4\frac{15}{16}$	$\frac{3}{4}$	$\frac{7}{8}$	$1\frac{217}{32}$	$1\frac{311}{64}$	$1\frac{213}{32}$	6	1	$1\frac{1}{4}$	$2\frac{25}{32}$	$\frac{13}{32}$
$3\frac{1}{2}$	FC 356	FCE 356	U356D	9.875	$11\frac{3}{8}$	$12\frac{7}{8}$	$4\frac{15}{16}$	$\frac{3}{4}$	$\frac{7}{8}$	$1\frac{217}{32}$	$1\frac{311}{64}$	$1\frac{213}{32}$	6	1	$1\frac{1}{4}$	$2\frac{25}{32}$	$\frac{13}{32}$
$3\frac{15}{16}$	FC 363	FCE 363	U363D	11.000	$12\frac{1}{2}$	14	$5\frac{9}{16}$	$\frac{3}{4}$	$\frac{7}{8}$	$1\frac{225}{32}$	$1\frac{47}{32}$	$1\frac{225}{32}$	7	$1\frac{3}{8}$	$1\frac{3}{8}$	$3\frac{3}{16}$	$\frac{13}{32}$

Blocks are supplied with grease fittings, are greased and ready for operation. Lubrication fitting tap sizes: All have $\frac{1}{8}$ PT.

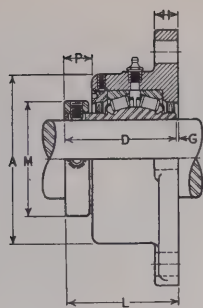
Increase weight 10% for blocks with floating bearings. Bolt holes are drilled $\frac{1}{32}$ " larger than bolt diameter.

□ Tolerance +.000"—.002". Bore tolerance for mounting +.002"—.000".

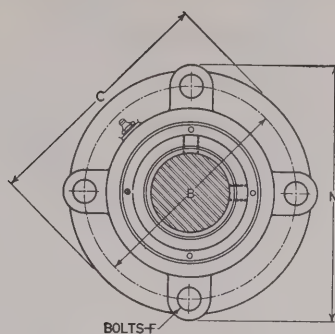
* Number Covers Bearing, Collar with Set-Screws and two Seals.

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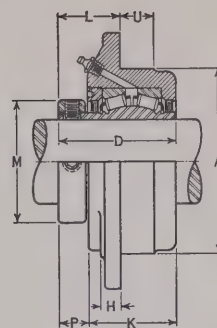
LINK-BELT SELF-ALIGNING FLANGE UNITS



SERIES F-400



BOLTS-F



SERIES FC-400

F-400 ROLLER BEARING FLANGE UNITS

Shaft diam.	Flanged block number	Bearing assembly used *	A	B	C	D	F☆	G	H	L	M	N	P
3/4	F412	U412A	2 7/8	4 1/8	4 3/4	2 9/16	3/8 □	1/32	9/16	2 19/32	2	5 1/8	1 7/32
1 15/16	F415	U415A	2 7/8	4 1/8	4 3/4	2 9/16	3/8 □	1/32	9/16	2 19/32	2	5 1/8	1 7/32
1	F416	U416A	2 7/8	4 1/8	4 3/4	2 9/16	3/8 □	1/32	9/16	2 19/32	2	5 1/8	1 7/32
1 1/4	F419	U419A	3 1/8	4 1/2	5 1/8	2 11/16	3/8 □	1/32	1 9/16	2 23/32	2 3/16	5 1/2	1 7/32
1 1/4	F420	U420A	3 1/8	4 1/2	5 1/8	2 11/16	3/8 □	1/32	1 9/16	2 23/32	2 3/16	5 1/2	1 7/32
1 7/16	F423	U423A	3 7/16	5	5 7/8	2 7/8	1 1/2 □	1/32	5/8	2 29/32	2 1/2	6 1/4	2 1/32
1 1/2	F424	U424A	3 7/16	5	5 7/8	2 7/8	1 1/2 □	1/32	5/8	2 29/32	2 1/2	6 1/4	2 1/32
1 11/16	F427	U427A	3 15/16	5 1/2	6 3/8	3 1/8	1 1/2 □	1/32	5/8	3 5/32	2 3/4	6 3/4	2 1/32
1 3/4	F428	U428A	3 15/16	5 1/2	6 3/8	3 1/8	1 1/2 □	1/32	5/8	3 5/32	2 3/4	6 3/4	2 1/32
1 15/16	F431	U431A	4 1/4	5 3/4	6 11/16	3 1/8	1 1/2 □	1/32	1 1/16	3 11/32	3	7	2 1/32
2	F432	U432A	4 1/4	5 3/4	6 11/16	3 1/8	1 1/2 □	1/32	1 1/16	3 11/32	3	7	2 1/32
2 1/16	F435	U435A	4 7/8	6 3/8	7 3/8	3 5/16	1 5/8 □	3/32	1 1/16	3 13/32	3 3/8	7 3/4	2 5/32
2 7/16	F439	U439A	5 3/8	6 3/4	7 3/4	3 1/2	5/8 □	3/32	3/4	3 19/32	3 11/16	8 1/8	2 7/32
2 1/2	F440	U440A	5 3/8	6 3/4	7 3/4	3 1/2	5/8 □	3/32	3/4	3 19/32	3 11/16	8 1/8	2 7/32
2 11/16	F443	U443A	6 1/4	7 7/8	9 1/8	4	5/8 □	3/32	7/8	4 3/32	4 3/16	9 1/2	2 7/32
2 15/16	F447	U447A	6 3/4	7 7/8	9 1/8	4	5/8 □	3/32	7/8	4 3/32	4 3/16	9 1/2	2 7/32
3	F448	U448A	6 1/4	7 7/8	9 1/8	4	5/8 □	3/32	7/8	4 3/32	4 3/16	9 1/2	2 7/32
3 7/16	F455	U455A	7 3/8	9 1/2	8 9/16 ★	4 3/8	3/4 □	3/32	1 3/8	4 9/32	5	11 7/16	1 5/16
3 1/2	F456	U456A	7 3/8	9 1/2	8 9/16 ★	4 3/8	3/4 □	3/32	1 3/8	4 9/32	5	11 7/16	1 5/16
3 11/16	F459	U459A	8 1/8	10 3/4	9 3/4 ★	5 1/16	7/8 □	5/32	1 1/2	5 7/32	5 1/2	12 15/16	1 1/2
3 15/16	F463	U463A	8 1/8	10 3/4	9 3/4 ★	5 1/16	7/8 □	5/32	1 1/2	5 7/32	5 1/2	12 15/16	1 1/2
4	F464	U464A	8 7/8	10 3/4	9 3/4 ★	5 1/16	7/8 □	5/32	1 1/2	5 7/32	5 1/2	12 15/16	1 1/2

FC-400 ROLLER BEARING FLANGE CARTRIDGE UNITS

Shaft diameter	Flanged cartridge unit number	Bearing assembly used *	A ■	B	C	D	▲ F	H	K	L	M	P	U
3/4	FC412	U412A	3.000	3 5/8	4 3/8	2 9/16	5/16	7/16	2	1 5/16	2	9/16	5/8
1 15/16	FC415	U415A	3.000	3 5/8	4 3/8	2 9/16	5/16	7/16	2	1 5/16	2	9/16	5/8
1	FC416	U416A	3.000	3 5/8	4 3/8	2 9/16	5/16	7/16	2	1 5/16	2	9/16	5/8
1 1/4	FC419	U419A	3.375	4 1/8	5	2 11/16	3/8	7/16	2 1/8	1 5/16	2 3/16	9/16	3/4
1 1/4	FC420	U420A	3.375	4 1/8	5	2 11/16	3/8	7/16	2 1/8	1 5/16	2 3/16	9/16	3/4
1 7/16	FC423	U423A	3.625	4 3/8	5 1/4	2 7/8	3/8	1 1/2	2 3/16	1 1/2	2 1/2	1 1/16	3/4
1 1/2	FC424	U424A	3.625	4 3/8	5 1/4	2 7/8	3/8	1 1/2	2 3/16	1 1/2	2 1/2	1 1/16	3/4
1 11/16	FC427	U427A	4.250	5 3/8	6 3/8	3 1/8	7/16	1 1/2	2 7/16	1 9/16	2 3/4	1 1/16	7/8
1 3/4	FC428	U428A	4.250	5 3/8	6 3/8	3 1/8	7/16	1 1/2	2 7/16	1 9/16	2 3/4	1 1/16	7/8
1 15/16	FC431	U431A	4.500	5 3/8	6 3/8	3 1/8	7/16	9/16	2 7/16	1 9/16	2 3/4	1 1/16	7/8
2	FC432	U432A	4.500	5 3/8	6 3/8	3 1/8	7/16	9/16	2 7/16	1 9/16	2 3/4	1 1/16	7/8
2 1/16	FC435	U435A	5.000	6	7 3/8	3 5/16	1 1/2	2 7/16	2 5/8	1 11/16	3 3/8	1 13/16	1
2 7/16	FC439	U439A	5.500	6 1/2	7 3/8	3 3/2	1 1/2	2 5/8	2 5/8	1 13/16	3 11/16	1 7/8	1 1/4
2 1/2	FC440	U440A	5.500	6 1/2	7 3/8	3 3/2	1 1/2	2 5/8	2 5/8	1 13/16	3 11/16	1 7/8	1 1/4
2 11/16	FC443	U443A	6.375	7 1/2	8 3/4	4	5/8	3/4	3 3/8	2	4 3/16	1 7/8	1 1/2
2 15/16	FC447	U447A	6.375	7 1/2	8 3/4	4	5/8	3/4	3 3/8	2	4 3/16	1 7/8	1 1/2
3	FC448	U448A	6.375	7 1/2	8 3/4	4	5/8	3/4	3 3/8	2	4 3/16	1 7/8	1 1/2
3 1/16	FC455	U455A	7.375	8 3/8	10 1/4	4 3/8	3/4	1 15/16	3 7/16	2 7/16	5	1 13/16	1 1/4
3 1/2	FC456	U456A	7.375	8 3/8	10 1/4	4 3/8	3/4	1 15/16	3 7/16	2 7/16	5	1 13/16	1 1/4
3 11/16	FC459	U459A	8.125	9 3/8	10 7/8	5 1/16	3/4	1	4	2 11/16	5 1/2	1 11/16	1 1/2
3 15/16	FC463	U463A	8.125	9 3/8	10 7/8	5 1/16	3/4	1	4	2 11/16	5 1/2	1 11/16	1 1/2
4	FC464	U464A	8.125	9 3/8	10 7/8	5 1/16	3/4	1	4	2 11/16	5 1/2	1 11/16	1 1/2

★ Flange is square instead of round as shown.

☆ Blocks F412 to 424, inclusive, have three bolt holes; all others have four bolt holes.

* Number Covers Bearing and Collar with Set-Screws. Seals and Threaded End Cap furnished only when specified.

■ Tolerance +.000" —.002". Bore tolerance for mounting +.002" —.000."

In ordering felt-neoprene seals add suffix A, as F420A.

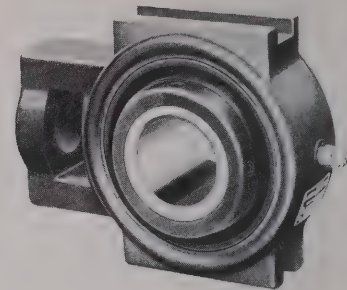
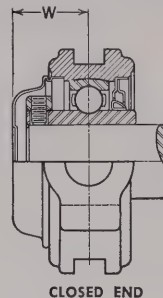
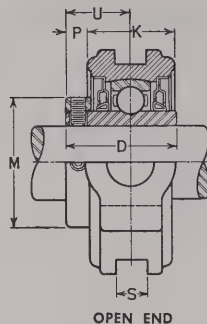
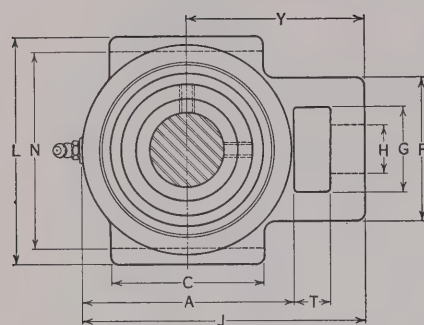
□ Bolt holes are cored 1/16" larger than bolt diameters.

▲ Bolt holes are drilled 1/32" larger than bolt diameter.

Lubrication fitting tap sizes: for all Series 400 = 1/8 PT.

NEED HELP ON BEARINGS—CALL US

LINK-BELT BALL BEARING TAKE-UP UNITS SELF-ALIGNING



LIGHT SERIES T-200

Shaft diam. Inches	Take-up block number ■	Bearing Assy. used *	A	C	D	F	G	H	J	K	L	M	N □	P	S □	T	U	W	Y
5/8	T210	U210D	2 3/16	1 3/4	1 3/32	1 11/16	1 1/16	1 1/2	3	2 9/32	2 1/4	1 5/16	1 7/8	3/16	9/32	1 1/2	4 1/64	5 7/64	1 15/16
11/16	T211	U211D	2 3/16	1 3/4	1 3/32	1 11/16	1 1/16	1 1/2	3	2 9/32	2 1/4	1 5/16	1 7/8	3/16	9/32	1 1/2	4 1/64	5 7/64	1 15/16
3/4	T212	U212D	2 1/2	1 7/8	1 9/32	1 11/16	1 1/16	1 1/2	3 5/16	1 1/8	2 1/2	1 1/2	2 1/8	7/32	9/32	1 1/2	1	2 29/32	2 29/32
7/8	T214	U214D	2 3/4	2	1 23/64	1 11/16	1 1/16	1 1/2	3 9/16	1 1/8	2 7/8	1 3/4	2 3/8	15/64	9/32	1 1/2	5 1/64	1 3/64	2 27/32
1 5/16	T215	U215D	2 3/4	2	1 23/64	1 11/16	1 1/16	1 1/2	3 9/16	1 1/8	2 7/8	1 3/4	2 3/8	15/64	9/32	1 1/2	5 1/64	1 3/64	2 27/32
1	T216	U216D	2 3/4	2	1 23/64	1 11/16	1 1/16	1 1/2	3 9/16	1 1/8	2 7/8	1 3/4	2 3/8	15/64	9/32	1 1/2	5 1/64	1 3/64	2 27/32
1 1/8	T218	U218D	3 1/4	2 3/8	1 9/16	1 7/8	1 1/8	9/16	4 3/16	1 9/32	3 1/2	2 3/32	2 7/8	5/16	13/32	9/16	6 1/64	1 7/32	2 19/32
1 1/16	T219	U219D	3 1/4	2 3/8	1 9/16	1 7/8	1 1/8	9/16	4 3/16	1 9/32	3 1/2	2 3/32	2 7/8	5/16	13/32	9/16	6 1/64	1 7/32	2 19/32
1 1/4	T220	U220D	3 1 1/16	2 5/8	1 3/4	2	1 1/4	5/8	4 11/16	1 3/8	4	2 7/16	3 3/8	13/32	13/32	5/8	1 3/32	1 23/64	2 7/8
1 1/16	T221	U221D	3 1 1/16	2 5/8	1 3/4	2	1 1/4	5/8	4 11/16	1 3/8	4	2 7/16	3 3/8	13/32	13/32	5/8	1 3/32	1 23/64	2 7/8
1 3/8	T222	U222D	3 1 1/16	2 5/8	1 3/4	2	1 1/4	5/8	4 11/16	1 3/8	4	2 7/16	3 3/8	13/32	13/32	5/8	1 3/32	1 23/64	2 7/8
1 7/16	T223	U223D	3 1 1/16	2 5/8	1 3/4	2	1 1/4	5/8	4 11/16	1 3/8	4	2 7/16	3 3/8	13/32	13/32	5/8	1 3/32	1 23/64	2 7/8
1 1/2	T224	U224D	4 1/16	2 7/8	1 29/32	2	1 1/4	5/8	5 1/8	1 7/8	4 1/2	2 11/16	3 1/2	13/32	13/32	5/8	1 11/64	1 15/32	3 1/8
1 5/8	T226	U226D	4 5/16	3 1/8	2 1/32	2 1/4	1 7/16	3/4	5 3/8	1 21/32	4 1/2	2 7/8	3 3/4	13/32	13/32	5/8	1 15/64	1 35/64	3 1/4
1 11/16	T227	U227D	4 5/16	3 1/8	2 1/32	2 1/4	1 7/16	3/4	5 3/8	1 21/32	4 1/2	2 7/8	3 3/4	13/32	13/32	5/8	1 15/64	1 35/64	3 1/4
1 3/4	T228	U228D	4 5/16	3 1/8	2 1/32	2 1/4	1 7/16	3/4	5 3/8	1 21/32	4 1/2	2 7/8	3 3/4	13/32	13/32	5/8	1 15/64	1 35/64	3 1/4
1 5/16	T231	U231D	4 9/16	3 1/4	2 3/32	2 1/4	1 7/16	3 3/4	5 5/8	1 23/32	4 3/4	3 3/8	4	13/32	13/32	5/8	1 17/64	1 19/32	3 3/8
2	T232	U232D	5	3 3/4	2 1/4	2 7/8	1 15/16	1	6 1/4	1 3/4	5 1/4	3 1/2	4 1/2	35/64	17/32	3/4	1 11/32	1 47/64	3 5/8
2 1/8	T234	U234D	5	3 3/4	2 1/4	2 7/8	1 15/16	1	6 1/4	1 3/4	5 1/4	3 1/2	4 1/2	35/64	17/32	3/4	1 11/32	1 47/64	3 5/8
2 3/16	T235	U235D	5	3 3/4	2 1/4	2 7/8	1 15/16	1	6 1/4	1 3/4	5 1/4	3 1/2	4 1/2	35/64	17/32	3/4	1 11/32	1 47/64	3 5/8

MEDIUM SERIES T-300

3/4	T312	U312D	3	2 1/4	1 15/32	2	1 1/4	1 1/16	4 1/16	1 7/32	3 5/8	1 5/8	3	15/64	17/32	5/8	2 7/32	1 3/64	2 27/64
7/8	T314	U314D	3 1 1/32	2 1/4	1 43/64	2	1 1/4	1 1/16	4 13/32	1 3/8	3 5/8	2	3	19/64	17/32	5/8	63/64	1 15/64	2 23/4
1 5/16	T315	U315D	3 1 1/32	2 1/4	1 43/64	2	1 1/4	1 1/16	4 13/32	1 3/8	3 5/8	2	3	19/64	17/32	5/8	63/64	1 15/64	2 23/4
1	T316	U316D	3 1 1/32	2 1/4	1 43/64	2	1 1/4	1 1/16	4 13/32	1 3/8	3 5/8	2	3	19/64	17/32	5/8	63/64	1 15/64	2 23/4
1 1/8	T318	U318D	3 21/32	2 3/4	1 59/64	2 5/16	1 7/16	3/4	4 27/32	1 1/2	4 1/8	2 5/16	3 1/2	25/64	17/32	5/8	1 9/64	1 11/32	3
1 3/16	T319	U319D	3 21/32	2 3/4	1 59/64	2 5/16	1 7/16	3/4	4 27/32	1 1/2	4 1/8	2 5/16	3 1/2	25/64	17/32	5/8	1 9/64	1 11/32	3
1 1/4	T320	U320D	4 1/32	2 3/4	2 3/32	2 3/8	1 7/16	3/4	5 9/32	1 5/8	4 1/8	2 9/16	3 1/2	7/16	17/32	5/8	1 1/4	1 1/2	3 1/4
1 5/16	T321	U321D	4 1/32	2 3/4	2 3/32	2 3/8	1 7/16	3/4	5 9/32	1 5/8	4 1/8	2 9/16	3 1/2	7/16	17/32	5/8	1 1/4	1 1/2	3 1/4
1 3/8	T322	U322D	4 1/32	2 3/4	2 3/32	2 3/8	1 7/16	3/4	5 9/32	1 5/8	4 1/8	2 9/16	3 1/2	7/16	17/32	5/8	1 1/4	1 1/2	3 1/4
1 7/16	T323	U323D	4 1/32	2 3/4	2 3/32	2 3/8	1 7/16	3/4	5 9/32	1 5/8	4 1/8	2 9/16	3 1/2	7/16	17/32	5/8	1 1/4	1 1/2	3 1/4
1 1/2	T324	U324D	4 21/32	3 1/4	2 5/16	3 3/16	1 15/16	1	6 5/32	1 25/32	4 7/8	3 1/6	4 1/8	1 1/2	11/16	3/4	1 25/64	1 39/64	3 13/16
1 5/8	T326	U326D	5 3/32	3 3/4	2 19/32	3 3/16	1 15/16	1	6 23/32	2	5 3/8	3 1/4	4 5/8	35/64	11/16	3/4	1 35/64	1 27/32	4 1/8
1 11/16	T327	U327D	5 3/32	3 3/4	2 19/32	3 3/16	1 15/16	1	6 23/32	2	5 3/8	3 1/4	4 5/8	35/64	11/16	3/4	1 35/64	1 27/32	4 1/8
1 3/4	T328	U328D	5 3/32	3 3/4	2 19/32	3 3/16	1 15/16	1	6 23/32	2	5 3/8	3 1/4	4 5/8	35/64	11/16	3/4	1 35/64	1 27/32	4 1/8
1 5/16	T331	U331D	5 17/32	4	2 19/16	3 3/4	2 1/4	1 1/8	7 13/32	2 3/16	5 7/8	3 7/16	5 1/8	37/64	13/16	1	1 43/64	1 31/32	4 5/8
2	T332	U332D	5 27/32	4 1/8	3 1/16	3 3/4	2 1/4	1 1/8	7 25/32	2 3/8	6 1/4	3 15/16	5 1/2	21/32	13/16	1	1 27/32	2 3/16	4 27/32
2 1/8	T334	U334D	5 27/32	4 1/8	3 1/16	3 3/4	2 1/4	1 1/8	7 25/32	2 3/8	6 1/4	3 15/16	5 1/2	21/32	13/16	1	1 27/32	2 3/16	4 27/32
2 1/16	T335	U335D	5 27/32	4 1/8	3 1/16	3 3/4	2 1/4	1 1/8	7 25/32	2 3/8	6 1/4	3 15/16	5 1/2	21/32	13/16	1	1 27/32	2 3/16	4 27/32
2 1/4	T336	U336D	6 13/32	4 1/2	3 5/16	4 1/8	2 1/2	1 1/4	8 21/32	2 9/16	6 3/4	4 3/16	6	21/32	11/16	1 1/4	1 15/16	2 7/16	5 1/16
2 1/16	T339	U339D	6 13/32	4 1/2	3 5/16	4 1/8	2 1/2	1 1/4	8 21/32	2 9/16	6 3/4	4 3/16	6	21/32	11/16	1 1/4	1 15/16	2 7/16	5 1/16
2 1/2	T340	U340D	7 1/16	5	3 19/32	4 1/8	2 1/2	1 1/4	9 5/16	2 23/32	7 1/4	4 9/16	6 1/2	25/32	11/16	1 1/4	2 5/64	2 17/32	5 3/4
2 11/16	T343	U343D	7 9/16	5 1/2	3 13/16	4 3/4	2 3/4	1 1/2	10 1/16	2 15/16	7 3/4	4 9/4	7	25/32	11/16	1 1/4	2 1/4	2 5/8	6 1/4
2 15/16	T347	U347D	8 1/16	5 3/4	4 3/32	4 3/4	2 3/4	1 1/2	10 9/16	3 1/4	8 1/4	4 15/16	7 1/2	3/4	15/16	1 1/4	2 3/8	2 3/4	6 1/2

■ In ordering closed end (furnished at no extra charge) add suffix C, as T315C, and limit shaft extension to 1/8" beyond end of bearing.

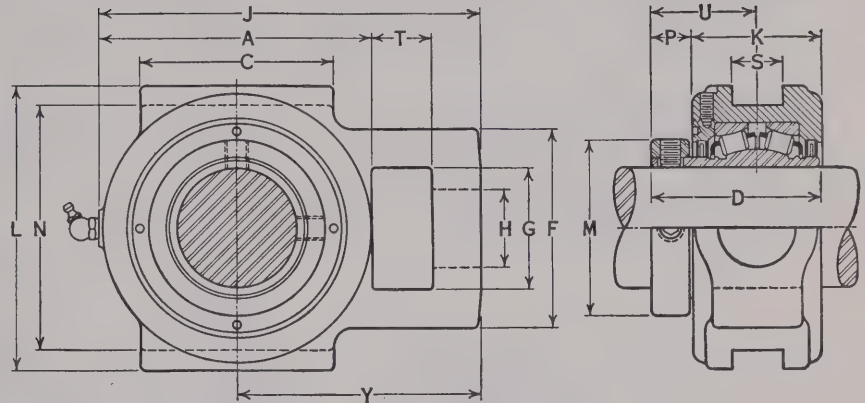
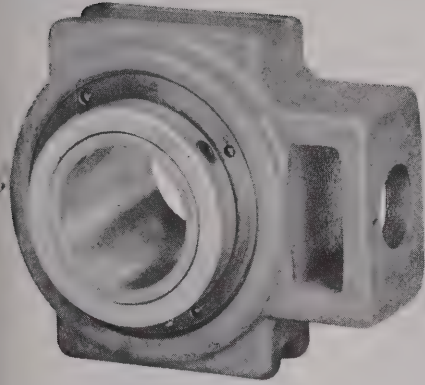
□ Slots are machined.

*Numbers covers Bearing, Collar with Set-Screws and two Seals.

Lubrication fitting tap sizes: for 210 to 211 = 1/4-28 NF; for 212 to 235 = 1/8 PT. for all Series T300 take-up blocks = 1/8 PT.

NEED HELP ON BEARINGS—CALL US

LINK-BELT ROLLER BEARING TAKE-UP UNITS SELF-ALIGNING T-400 SERIES



The cast bearing blocks are equipped with Series 400 self-aligning double row roller bearings having concave rollers operating on convex raceways.

Shaft diameter Inches	Take-up block number ■	Bearing Assembly used *	A	C	D	F	G	H	J	K	L	M	N□	P	S□	T	U	Y
			INCHES															
3/4 1 15/16 1 1 3/16	T412 T415 T416 T419	U412A U415A U416A U419A	3 3 3 3 5/16	2 1/4 2 1/4 2 1/4 2 1/2	2 9/16 2 9/16 2 9/16 2 11/16	2 2 2 2 5/16	1 1/4 1 1/4 1 1/4 1 1/16	1 1/16 1 1/16 1 1/16 3/4	4 1/16 4 1/16 4 1/16 4 1/2	2 1/16 2 1/16 2 1/16 2 3/16	3 5/8 3 5/8 3 5/8 4 1/8	2 2 2 2 3/16	3 3 3 3 1/2	17/32 17/32 17/32 17/32	17/32 17/32 17/32 17/32	5/8 5/8 5/8 5/8	1 9/16 1 9/16 1 9/16 1 5/8	2 9/16 2 9/16 2 9/16 2 13/16
1 1/4 1 7/16 1 1/2 1 11/16	T420 T423 T424 T427	U420A U423A U424A U427A	3 5/16 3 1/2 3 1/2 4 3/16	2 1/2 2 3/4 2 3/4 3 1/4	2 11/16 2 7/8 2 7/8 3 1/8	2 5/16 2 3/8 2 3/8 3 3/16	1 7/16 1 7/16 1 7/16 1 15/16	3/4 3/4 3/4 1	4 1/2 4 3/4 4 3/4 5 3/4	2 3/16 2 1/4 2 1/4 2 1/2	4 1/8 4 1/8 4 1/8 4 3/4	2 3/16 2 1/2 2 1/2 2 3/4	3 1/2 3 1/2 3 1/2 4	17/32 21/32 21/32 21/32	17/32 17/32 17/32 11/16	5/8 5/8 5/8 3/4	1 5/8 1 25/32 1 25/32 1 29/32	2 13/16 3 3 3 5/8
1 3/4 1 15/16 2 2 3/16	T428 T431 T432 T435	U428A U431A U432A U435A	4 3/16 4 7/16 4 7/16 5 1/8	3 1/4 3 3/8 3 3/8 3 3/4	3 1/8 3 1/8 3 1/8 3 3/16	3 3/16 3 3/16 3 3/16 3 3/4	1 15/16 1 15/16 1 15/16 2 1/4	1 1 1 1 1/8	5 3/4 6 6 7 1/16	2 1/2 2 1/2 2 1/2 2 3/16	4 3/4 4 3/4 4 3/4 5 1/4	2 3/4 3 3 3 3/8	4 4 4 4 1/2	21/32 21/32 21/32 25/32	11/16 11/16 11/16 13/16	3/4 3/4 3/4 1	1 29/32 1 29/32 1 29/32 2 1/16	3 5/8 3 3/4 3 3/4 4 5/32
2 7/16 2 1/2 2 11/16 2 15/16	T439 T440 T443 T447	U439A U440A U443A U447A	5 5/8 5 5/8 6 1/2 6 1/2	4 4 4 3/4 4 3/4	3 1/2 3 1/2 4 4	4 1/8 4 1/8 4 3/4 4 3/4	2 1/2 2 1/2 2 3/4 2 3/4	1 1/4 1 1/4 1 1/2 1 1/2	7 7/8 7 7/8 9 9	2 11/16 2 11/16 3 3/16 3 3/16	5 7/8 5 7/8 6 11/16 6 11/16	3 11/16 3 11/16 4 3/16 4 3/16	5 1/8 5 1/8 5 15/16 5 15/16	27/32 27/32 27/32 27/32	1 1/16 1 1/16 1 13/16 1 13/16	1 1/4 1 1/4 1 1/4 1 1/4	2 3/16 2 3/16 2 7/16 2 7/16	5 1/32 5 1/32 5 23/32 5 23/32
3	T448	U448A	6 1/2	4 3/4	4	4 3/4	2 3/4	1 1/2	9	3 3/16	6 11/16	4 3/16	5 15/16	27/32	1 13/16	1 1/4	2 7/16	5 23/32

■ In ordering felt-neoprene seals add suffix A, as T420A.

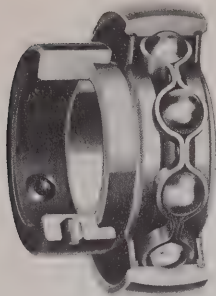
□ Slots are machined.

Blocks are supplied with grease fittings, are greased and ready for operation.

Lubrication fitting tap sizes: for all Series 400 take-up blocks = 1/8 PT.

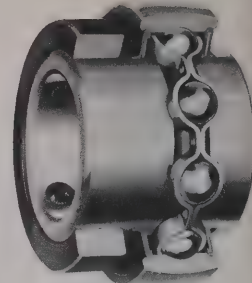
*Number covers Bearing and Collar with Set-Screws. Seals and Threaded End Cap furnished only when specified.

NEED HELP ON BEARINGS—CALL US

LINK-BELT**W200 SERIES BALL BEARING UNITS**

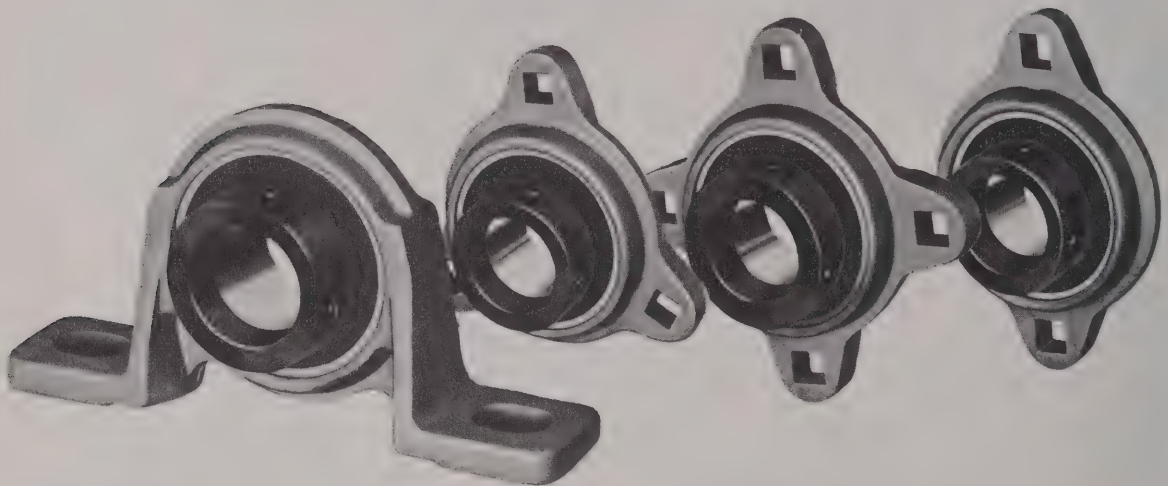
Eccentric
Locking Collar

Link-Belt W200 ball bearings are designed specifically for quantity buyers of high quality bearings for agricultural equipment and general power transmission applications. This is the only line of bearings offered in such a wide variety of types and sizes—all available with malleable iron or pressed steel housings, and with eccentric cam or spring locking collars.



Spring
Locking Collar

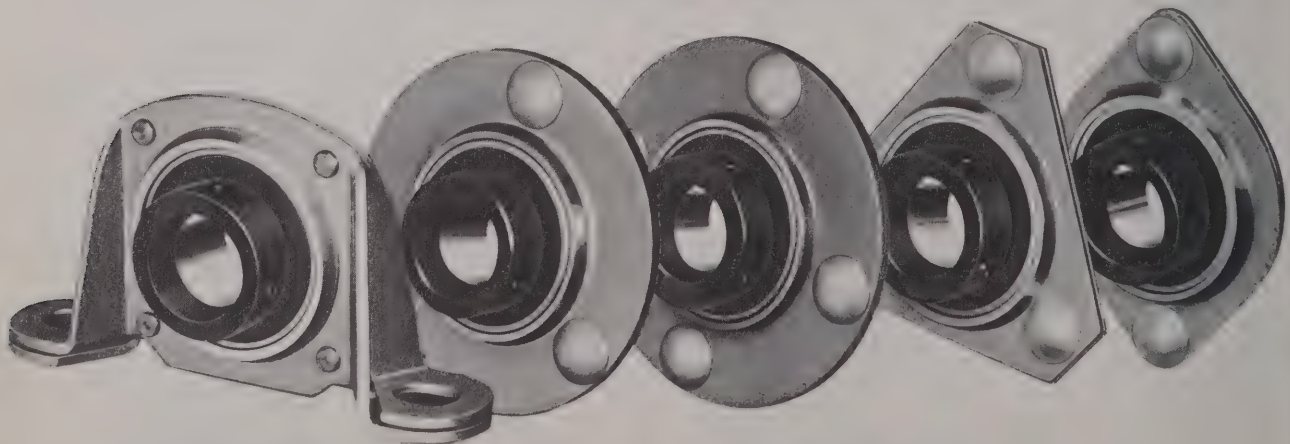
COMPLETE ENGINEERING AND DIMENSIONAL DATA CATALOG AVAILABLE ON REQUEST

MALLEABLE IRON HOUSING**PILLOW BLOCKS**

Pillow blocks available in two backing dimensions for 26 shaft sizes from $\frac{1}{2}$ " to 2"

FLANGED BLOCKS

Flanged blocks available for 26 shaft sizes from $\frac{1}{2}$ " to 2" in 3 and 4-bolt types and 17 shaft sizes in the 2-bolt type. All are available with reverse assembly of bearing in housing.

PRESSED STEEL HOUSING**PILLOW BLOCKS**

Pillow blocks available for 17 shaft sizes from $\frac{1}{2}$ " to $1\frac{1}{16}$ "

FLANGED BLOCKS

Flanged blocks are available for 26 shaft sizes from $\frac{1}{2}$ " to 2" in 3 and 4-bolt round types and 13 shaft sizes in the 2-bolt type. Also, 3-bolt triangular housing blocks are available for 9 shaft sizes from $\frac{3}{4}$ " to $1\frac{1}{4}$ ".

NEED HELP ON BEARINGS—CALL US

LINK BELT TAKE-UP FRAMES

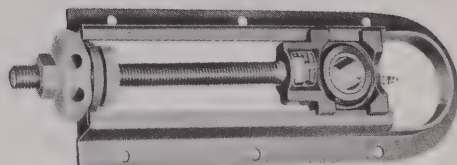
The steel frames pictured here when used in conjunction with the take-up units shown on the preceding pages provide a great amount of adjustment and are ideal for a wide range of applications. All combine maximum strength with minimum weight in simplicity of design and compactness to allow for the minimum installation space.

Complete specifications and dimensions on request.

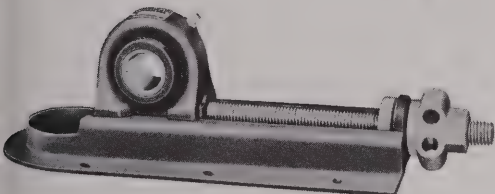
Series TAS 200 • wall mounting type

Pressed steel frames—Capstan type nut and adjusting screw
cadmium plated for rust protection and easy operation.

Shaft Dia. $1\frac{5}{16}$ " to $2\frac{3}{16}$ "—Travel 6" to 18"



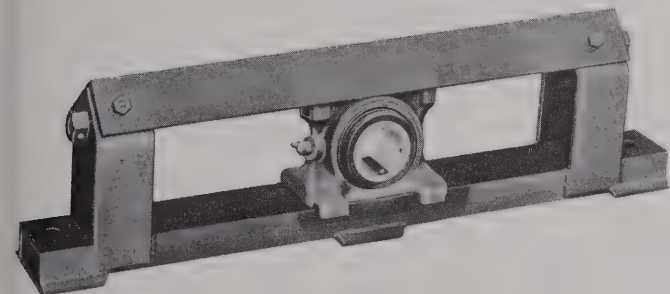
Series TBS 200 • floor mounting type



Where shaft adjustment and belt tightening devices are required, as on conveyor applications, the floor mounting is often used.

Shaft Dia. $1\frac{5}{16}$ " to $2\frac{3}{16}$ "—Travel 6" to 18"

Series TDS 200 & DS 3-400 • protected screw type



Available with either ball or roller self aligning bearing units.

The welded steel frame resists pull from all directions under normal operating conditions.

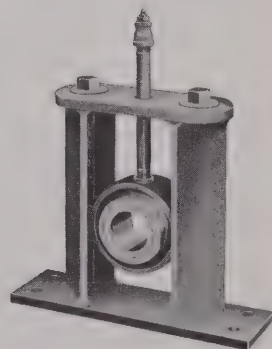
Shaft Dia. $1\frac{15}{16}$ " to $3\frac{15}{16}$ " Travel 12" to 30"

Series TGS 200 & GS 2-400 • bucket elevator head type

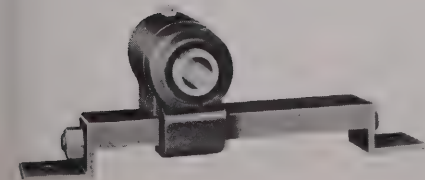
These series ball and roller bearing take-ups are designed for service on bucket elevator heads, and are furnished with fingers to support the follower plate in the elevator casing.

The two adjusting screws, in tension under load, are well-protected by the vertical portions of the steel frame.

Shaft Dia. $1\frac{15}{16}$ " to $3\frac{15}{16}$ " Travel 5" to 9"

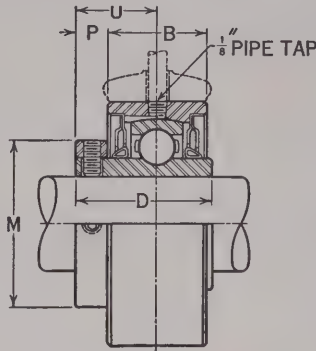
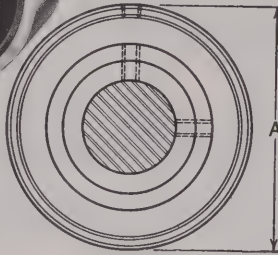
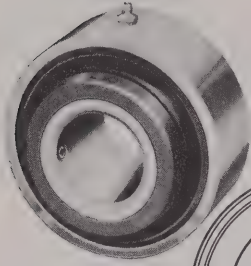
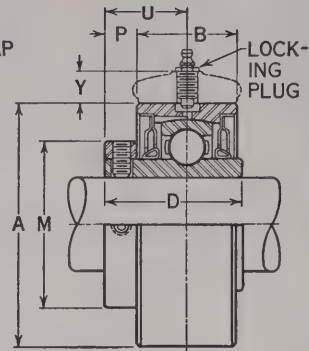
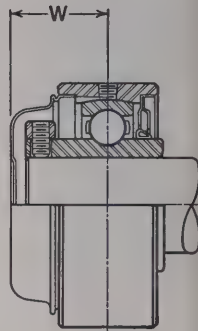


Series NT 200



Rigid channel type frames protect the adjusting screws, which along with the nuts are cadmium-plated for rust-proofing and easy operation. Take-ups may be operated with screws in compression or tension.

Shaft Dia. $1\frac{5}{16}$ " to $2\frac{3}{16}$ " Travel 6" to 18"

LINK-BELT**BALL BEARING SELF-ALIGNING CARTRIDGE UNITS****MEDIUM SERIES C-300, CE-300****Fixed or Floating Types****FIXED BEARING
OPEN END****FLOATING BEARING
OPEN END****CLOSED
END**

Shaft Dia.	Cartridge Block Number■		Bear- ing Assy. used *	A	Car- tridge Toler- ance +.000"	Bore Toler- ance for Mount- ing -.000"	B	D	M	P	U	W	Y	Total Axial Float ■
	With Fixed Bearing	With Floating Bearing												
5/8	C-310	CE-310	U310D	2.281	-.002	+.002	1 1/32	1 21/64	1 7/16	1/4	49/64	1	3/8	1/8
11/16	C-311	CE-311	U311D	2.281	-.002	+.002	1 1/32	1 21/64	1 7/16	1/4	49/64	1	3/8	1/8
3/4	C-312	CE-312	U312D	2.469	-.002	+.002	1 5/32	1 15/32	1 5/8	17/64	27/32	1 3/64	3/8	1/8
7/8	C-314	CE-314	U314D	3.000	-.002	+.002	1 1/4	1 43/64	2	23/64	63/64	1 15/64	3/8	1/8
1 1/16	C-315	CE-315	U315D	3.000	-.002	+.002	1 1/4	1 43/64	2	23/64	63/64	1 15/64	3/8	1/8
1	C-316	CE-316	U316D	3.000	-.002	+.002	1 1/4	1 43/64	2	23/64	63/64	1 15/64	3/8	1/8
1 1/8	C-318	CE-318	U318D	3.4375	-.002	+.002	1 5/8	1 59/64	2 5/16	29/64	19/64	1 13/32	3/8	1/8
1 3/16	C-319	CE-319	U319D	3.4375	-.002	+.002	1 5/8	1 59/64	2 5/16	29/64	19/64	1 13/32	3/8	1/8
1 1/4	C-320	CE-320	U320D	3.750	-.002	+.002	1 1/2	2 3/32	2 9/16	1/2	1 1/4	1 1/2	9/16	3/16
1 5/16	C-321	CE-321	U321D	3.750	-.002	+.002	1 1/2	2 3/32	2 9/16	1/2	1 1/4	1 1/2	9/16	3/16
1 3/8	C-322	CE-322	U322D	3.750	-.002	+.002	1 1/2	2 3/32	2 9/16	1/2	1 1/4	1 1/2	9/16	3/16
1 7/16	C-323	CE-323	U323D	3.750	-.002	+.002	1 1/2	2 3/32	2 9/16	1/2	1 1/4	1 1/2	9/16	3/16
1 1/2	C-324	CE-324	U324D	4.1875	-.002	+.002	1 21/32	2 5/16	3 1/16	9/16	1 25/64	1 39/64	9/16	3/16
1 5/8	C-326	CE-326	U326D	4.594	-.002	+.002	1 27/32	2 19/32	3 1/4	5/8	1 35/64	1 27/32	9/16	3/16
1 11/16	C-327	CE-327	U327D	4.594	-.002	+.002	1 27/32	2 19/32	3 1/4	5/8	1 35/64	1 27/32	9/16	3/16
1 3/4	C-328	CE-328	U328D	4.594	-.002	+.002	1 27/32	2 19/32	3 1/4	5/8	1 35/64	1 27/32	9/16	3/16
1 5/8	C-331	CE-331	U331D	5.000	-.002	+.002	2 1/32	2 13/16	3 7/16	2 1/32	1 43/64	1 31/32	9/16	3/16
2	C-332	CE-332	U332D	5.375	-.002	+.002	2 3/16	3 1/16	3 15/16	3/4	1 27/32	2 3/16	1 1/16	3/16
2 1/8	C-334	CE-334	U334D	5.375	-.002	+.002	2 3/16	3 1/16	3 15/16	3/4	1 27/32	2 3/16	1 1/16	3/16
2 3/16	C-335	CE-335	U335D	5.375	-.002	+.002	2 3/16	3 1/16	3 15/16	3/4	1 27/32	2 3/16	1 1/16	3/16
2 1/4	C-336	CE-336	U336D	5.781	-.002	+.002	2 3/8	3 5/16	4 3/16	3/4	1 15/16	2 7/16	1 1/16	3/16
2 7/16	C-339	CE-339	U339D	5.781	-.002	+.002	2 3/8	3 5/16	4 3/16	3/4	1 15/16	2 7/16	1 1/16	3/16
2 1/2	C-340	CE-340	U340D	6.1875	-.002	+.002	2 17/32	3 19/32	4 9/16	7/8	2 9/64	2 17/32	3/4	1/4
2 11/16	C-343	CE-343	U343D	6.5625	-.002	+.002	2 3/4	3 13/16	4 3/4	7/8	2 1/4	2 5/8	3/4	1/4
2 3/4	C-344	CE-344	U344D	6.5625	-.002	+.002	2 3/4	3 13/16	4 3/4	7/8	2 1/4	2 5/8	3/4	1/4
2 5/8	C-347	CE-347	U347D	6.969	-.002	+.002	3	4 3/32	4 15/16	7/8	2 3/8	2 3/4	3/4	1/4
3 3/16	C-351	CE-351	U351D	7.594	-.002	+.002	3 3/16	4 13/32	5 1/16	1	2 19/32	3	1	3/8
3 1/8	C-355	CE-355	U355D	8.375	-.0025	+.0025	3 1/8	4 15/16	6	1 1/8	2 29/32	3 3/32	1	3/8
3 11/16	C-359	CE-359	U359D	8.7813	-.0025	+.0025	3 13/16	5 3/16	6 1/4	1 1/8	3 1/32	3 7/16	1	3/8
3 5/8	C-363	CE-363	U363D	9.375	-.0025	+.0025	4 1/16	5 9/16	7	1 1/4	3 9/32	3 11/16	1	3/8

Blocks are supplied with grease fittings, are greased and ready for operation.

Lubrication fitting tap sizes: for C310 to 363 = 1/8 PT; for CE310 to 339 = 1/4-28 NF; for CE340 to 363 = 1/8 PT.

■ In ordering closed end (furnished at no extra charge) add suffix C, as C315C.

*Number covers Bearing, Collar with Set-Screws and two Seals.

Locking plug thread sizes:

for CE310 to CE339 incl. = 1/4-20 NF;

for CE340 to CE363 incl. = 1/8-18 NF.

NEED HELP ON BEARINGS—CALL US

LINK-BELT

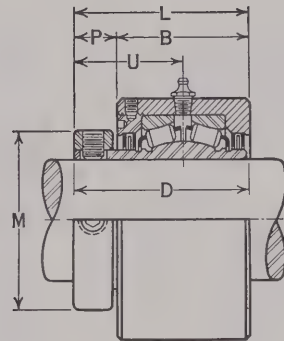
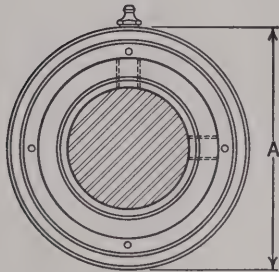
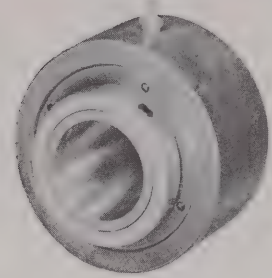
ROLLER BEARING SELF-ALIGNING CARTRIDGE UNITS

SERIES C-2-400

These units provide ideal mountings for machine frames. The shaft may be removed from machine without disturbing the bearing assembly. Units are held on outside diameter to close tolerance and are treated to prevent rusting or seizure in service.

These blocks are supplied with grease fittings, are greased and ready for operation. Lubrication fitting tap size: for all Series 400 cartridge blocks = $\frac{1}{8}$ Pt.

Equipped with labyrinth type seals which effectively keep grease in and prevent entry of dirt. For extremely dusty or dirty operating conditions Felt-Neoprene sealed units are recommended, designated by suffix A, as C2-420A.



SERIES C-2-400

Shaft Diameter	Cartridge Block Number	Bearing Assembly used *	A Δ	B ⊕	D	L	M	P	U
$\frac{3}{4}$	C2-412	U412A	3.000	$2\frac{1}{16}$	$2\frac{9}{16}$	$2\frac{5}{8}$	2	$\frac{9}{16}$	$1\frac{9}{16}$
$1\frac{1}{16}$	C2-415	U415A	3.000	$2\frac{1}{16}$	$2\frac{9}{16}$	$2\frac{5}{8}$	2	$\frac{9}{16}$	$1\frac{9}{16}$
1	C2-416	U416A	3.000	$2\frac{1}{16}$	$2\frac{9}{16}$	$2\frac{5}{8}$	2	$\frac{9}{16}$	$1\frac{9}{16}$
$1\frac{3}{16}$	C2-419	U419A	3.219	$2\frac{3}{16}$	$2\frac{11}{16}$	$2\frac{3}{4}$	$2\frac{3}{16}$	$\frac{9}{16}$	$1\frac{5}{8}$
$1\frac{1}{4}$	C2-420	U420A	3.219	$2\frac{3}{16}$	$2\frac{11}{16}$	$2\frac{3}{4}$	$2\frac{3}{16}$	$\frac{9}{16}$	$1\frac{5}{8}$
$1\frac{7}{16}$	C2-423	U423A	3.438	$2\frac{1}{4}$	$2\frac{7}{8}$	$2\frac{15}{16}$	$2\frac{1}{2}$	$\frac{11}{16}$	$1\frac{25}{32}$
$1\frac{1}{2}$	C2-424	U424A	3.438	$2\frac{1}{4}$	$2\frac{7}{8}$	$2\frac{15}{16}$	$2\frac{1}{2}$	$\frac{11}{16}$	$1\frac{25}{32}$
$1\frac{11}{16}$	C2-427	U427A	3.938	$2\frac{1}{2}$	$3\frac{1}{8}$	$3\frac{3}{16}$	$2\frac{3}{4}$	$\frac{11}{16}$	$1\frac{29}{32}$
$1\frac{3}{4}$	C2-428	U428A	3.938	$2\frac{1}{2}$	$3\frac{1}{8}$	$3\frac{3}{16}$	$2\frac{3}{4}$	$\frac{11}{16}$	$1\frac{29}{32}$
$1\frac{15}{16}$	C2-431	U431A	4.125	$2\frac{1}{2}$	$3\frac{1}{8}$	$3\frac{3}{16}$	3	$\frac{11}{16}$	$1\frac{29}{32}$
2	C2-432	U432A	4.125	$2\frac{1}{2}$	$3\frac{1}{8}$	$3\frac{3}{16}$	3	$\frac{11}{16}$	$1\frac{29}{32}$
$2\frac{3}{16}$	C2-435	U435A	4.531	$2\frac{5}{8}$	$3\frac{5}{16}$	$3\frac{7}{16}$	$3\frac{3}{8}$	$\frac{13}{16}$	$2\frac{1}{16}$
$2\frac{7}{16}$	C2-439	U439A	5.000	$2\frac{3}{4}$	$3\frac{1}{2}$	$3\frac{3}{8}$	$3\frac{11}{16}$	$\frac{7}{8}$	$2\frac{3}{16}$
$2\frac{1}{2}$	C2-440	U440A	5.000	$2\frac{3}{4}$	$3\frac{1}{2}$	$3\frac{3}{8}$	$3\frac{11}{16}$	$\frac{7}{8}$	$2\frac{3}{16}$
$2\frac{11}{16}$	C2-443	U443A	5.875	$3\frac{1}{4}$	4	$4\frac{1}{8}$	$4\frac{3}{16}$	$\frac{7}{8}$	$2\frac{7}{16}$
$2\frac{15}{16}$	C2-447	U447A	5.875	$3\frac{1}{4}$	4	$4\frac{1}{8}$	$4\frac{3}{16}$	$\frac{7}{8}$	$2\frac{7}{16}$
3	C2-448	U448A	5.875	$3\frac{1}{4}$	4	$4\frac{1}{8}$	$4\frac{3}{16}$	$\frac{7}{8}$	$2\frac{7}{16}$
$3\frac{7}{16}$	C2-455	U455A	6.750	$3\frac{7}{16}$	$4\frac{3}{8}$	$4\frac{3}{8}$	5	$\frac{15}{16}$	$2\frac{21}{32}$
$3\frac{1}{2}$	C2-456	U456A	6.750	$3\frac{7}{16}$	$4\frac{3}{8}$	$4\frac{3}{8}$	5	$\frac{15}{16}$	$2\frac{21}{32}$
$3\frac{11}{16}$	C2-459	U459A	7.375	$4\frac{3}{32}$	$5\frac{1}{16}$	$5\frac{3}{16}$	$5\frac{1}{2}$	$1\frac{1}{16}$	$3\frac{1}{16}$
$3\frac{15}{16}$	C2-463	U463A	7.375	$4\frac{3}{32}$	$5\frac{1}{16}$	$5\frac{3}{16}$	$5\frac{1}{2}$	$1\frac{1}{16}$	$3\frac{1}{16}$
4	C2-464	U464A	7.375	$4\frac{3}{32}$	$5\frac{1}{16}$	$5\frac{3}{16}$	$5\frac{1}{2}$	$1\frac{1}{16}$	$3\frac{1}{16}$

■ In ordering felt-neoprene seals add suffix A, as C2-420A.

⊕ Sides of cartridge (dimension B) are not machined.

Δ Tolerance +.000" —.002". Bore tolerance for mounting +.002" —.000".

*Number covers Bearing and Collar with Set-Screws. Seals and Threaded End Cap
Furnished only when specified.

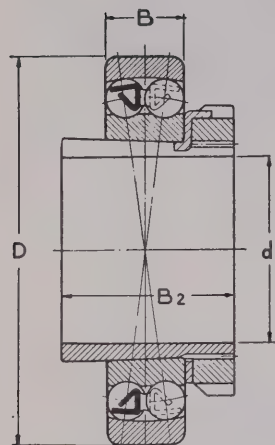
NEED HELP ON BEARINGS—CALL US

SKF BALL BEARINGS

SELF-ALIGNING ADAPTER SLEEVE TYPE

SERIES 15 A

Bearing & Adapter Complete	Bearing Only	Adapter Sleeve Nut & Washer	Shaft Dia. d	Outside Dia. D	Width B	Length of Adapter Sleeve B ₂
*1504 A	1204 K	SNW 04 x 11 ¹¹ / ₁₆	11 ¹¹ / ₁₆	1.8504	.551	1 ¹⁵ / ₆₄
1505 A	1205 K	SNW 05 x 3 ³ / ₄	3 ³ / ₄	2.0472	.591	1 ¹⁷ / ₆₄
1506 A	1206 K	SNW 06 x 15 ¹⁵ / ₁₆	15 ¹⁵ / ₁₆	2.4409	.630	1 ²³ / ₆₄
1507 A	1207 K	SNW 07 x 13 ¹³ / ₁₆	13 ¹³ / ₁₆	2.8346	.669	1 ²⁹ / ₆₄
1508 A	1208 K	SNW 08 x 15 ¹⁵ / ₁₆	15 ¹⁵ / ₁₆	3.1496	.709	1 ¹ / ₂
1509 A	1209 K	SNW 09 x 17 ¹⁷ / ₁₆	17 ¹⁷ / ₁₆	3.3465	.748	1 ³⁷ / ₆₄
1510 A	1210 K	SNW 10 x 11 ¹¹ / ₁₆	11 ¹¹ / ₁₆	3.5433	.787	1 ⁴⁹ / ₆₄
1511 A	1211 K	SNW 11 x 11 ¹⁵ / ₁₆	11 ¹⁵ / ₁₆	3.9370	.827	1 ²⁷ / ₃₂
1513 A	1213 K	SNW 13 x 23 ²³ / ₁₆	23 ²³ / ₁₆	4.7244	.906	2 ⁷ / ₆₄
1515 A	1215 K	SNW 15 x 27 ²⁷ / ₁₆	27 ²⁷ / ₁₆	5.1181	.984	2 ¹⁹ / ₆₄
1516 A	1216 K	SNW 16 x 21 ²¹ / ₁₆	21 ²¹ / ₁₆	5.5118	1.024	2 ³ / ₈
1517 A	1217 K	SNW 17 x 21 ¹⁵ / ₁₆	21 ¹⁵ / ₁₆	5.9055	1.102	2 ³¹ / ₆₄
1520 A	1220 K	SNW 20 x 37 ³⁷ / ₁₆	37 ³⁷ / ₁₆	7.0866	1.339	2 ⁷ / ₈

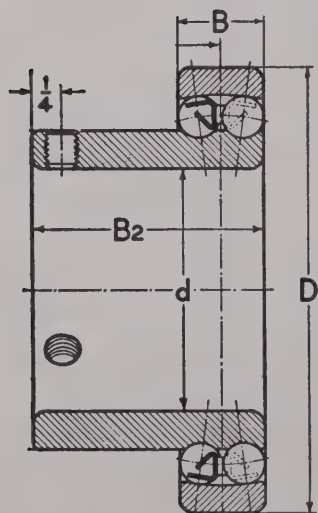


The 15A and 16A Series Bearings are used in SAF-15-A and SAF-16-A Series Pillow Blocks as well as in SKF Hangers. Pillow Blocks are shown on Page 275.

SERIES 16 A

Bearing & Adapter Complete	Bearing Only	Adapter Sleeve Nut & Washer	Shaft Dia. d	Outside Dia. D	Width B	Length of Adapter Sleeve B ₂
*1604 A	1304 K	SNW 04 x 11 ¹¹ / ₁₆	11 ¹¹ / ₁₆	2.0472	.591	1 ¹⁵ / ₆₄
*1605 A	1305 K	SNW 05 x 3 ³ / ₄	3 ³ / ₄	2.4409	.669	1 ¹⁷ / ₆₄
1606 A	1306 K	SNW 06 x 15 ¹⁵ / ₁₆	15 ¹⁵ / ₁₆	2.8346	.748	1 ²³ / ₆₄
1607 A	1307 K	SNW 07 x 13 ¹³ / ₁₆	13 ¹³ / ₁₆	3.1496	.827	1 ²⁹ / ₆₄
1608 A	1308 K	SNW 08 x 15 ¹⁵ / ₁₆	15 ¹⁵ / ₁₆	3.5433	.9055	1 ¹ / ₂
1609 A	1309 K	SNW 09 x 17 ¹⁷ / ₁₆	17 ¹⁷ / ₁₆	3.9370	.984	1 ³⁷ / ₆₄
1610 A	1310 K	SNW 10 x 11 ¹¹ / ₁₆	11 ¹¹ / ₁₆	4.3307	1.063	1 ⁴⁹ / ₆₄
1611 A	1311 K	SNW 11 x 11 ¹⁵ / ₁₆	11 ¹⁵ / ₁₆	4.7244	1.142	1 ²⁷ / ₃₂
1613 A	1313 K	SNW 13 x 23 ²³ / ₁₆	23 ²³ / ₁₆	5.5118	1.299	2 ⁷ / ₆₄
1615 A	1315 K	SNW 15 x 27 ²⁷ / ₁₆	27 ²⁷ / ₁₆	6.2992	1.457	2 ¹⁹ / ₆₄
1616 A	1316 K	SNW 16 x 21 ²¹ / ₁₆	21 ²¹ / ₁₆	6.6929	1.535	2 ³ / ₈
1617 A	1317 K	SNW 17 x 21 ¹⁵ / ₁₆	21 ¹⁵ / ₁₆	7.0866	1.614	2 ³¹ / ₆₄
1618 A	1318 K	SNW 18 x 33 ³³ / ₁₆	33 ³³ / ₁₆	7.4803	1.693	2 ⁴¹ / ₆₄
1620 A	1320 K	SNW 20 x 37 ³⁷ / ₁₆	37 ³⁷ / ₁₆	8.4646	1.850	2 ⁷ / ₈
1621 A	1321 K	SNW 21 x 31 ³¹ / ₁₆	31 ³¹ / ₁₆	8.8583	1.929	2 ⁶³ / ₆₄
1622 A	1322 K	SNW 22 x 31 ¹⁵ / ₁₆	31 ¹⁵ / ₁₆	9.4488	1.969	3 ¹³ / ₆₄

When specified, Adapter Mountings can be furnished for "English" shaft sizes, which are 1/16" larger than standards shown above.

SELF-ALIGNING EXTENDED INNER RACE TYPE**SERIES I-712**

These Bearings are used in SKF "SG" Pillow Blocks, "FG" Flanged Housings and "TG" Take-up Boxes, which are still found in service, but no longer produced.

Bearing Number	Shaft Dia. d	Outside Dia. D	Width Outer Race B	Width Inner Race B ₂	Basic Load Rating in Lbs. 15 R. P. M.
I-71210	5 ⁵ / ₈	1.5748	.472	1.486	1,800
I-71211	11 ¹¹ / ₁₆	1.5748	.472	1.486	1,800
I-71212	3 ³ / ₄	1.8504	.551	1.588	2,350
I-71215	15 ¹⁵ / ₁₆	2.0472	.591	1.608	2,950
I-71216	1	2.0472	.591	1.608	2,950
I-71218	1 ¹ / ₈	2.4409	.630	1.690	3,900
I-71219	1 ¹ / ₈	2.4409	.630	1.690	3,900
I-71220	1 ¹ / ₄	2.8346	.669	1.835	4,300
I-71221	1 ⁵ / ₁₆	2.8346	.669	1.835	4,300
I-71222	1 ³ / ₈	2.8346	.669	1.835	4,300
I-71223	1 ¹ / ₁₆	2.8346	.669	1.835	4,300
I-71224	1 ¹ / ₂	3.1496	.709	1.854	5,500
I-71227	11 ¹¹ / ₁₆	3.3465	.748	1.999	6,200
I-71228	1 ³ / ₄	3.3465	.748	1.999	6,200
I-71231	1 ¹⁵ / ₁₆	3.5433	.787	2.144	6,800
I-71235	2 ³ / ₁₆	3.9370	.827	2.163	7,800

*Consult for availability.

SKF SPHERICAL ROLLER BEARINGS WITH ADAPTERS

SERIES 225 A

Bearing & Adapter Complete	Bearing Only	Adapter Sleeve Nut & Washer	Shaft Dia. d	Outside Dia. D	Width Outer Race B	Length Adapter Sleeve B ₂
22507 A	22207 K	SNW 07 x 1 ³ / ₁₆	1 ³ / ₁₆	2.8346	.9055	1 ²⁹ / ₆₄
*22508 A	22208 K	SNW 08 x 1 ⁵ / ₁₆	1 ⁵ / ₁₆	3.1496	.9055	1 ¹ / ₂
22509 A	22209 K	SNW 09 x 1 ⁷ / ₁₆	1 ⁷ / ₁₆	3.3465	.9055	1 ³⁷ / ₆₄
22510 A	22210 K	SNW 10 x 1 ¹¹ / ₁₆	1 ¹¹ / ₁₆	3.5433	.9055	1 ⁴⁹ / ₆₄
22511 A	22211 K	SNW 11 x 1 ⁵ / ₁₆	1 ⁵ / ₁₆	3.9370	.9843	1 ²⁷ / ₃₂
22513 A	22213 K	SNW 13 x 2 ³ / ₁₆	2 ³ / ₁₆	4.7244	1.2205	2 ¹ / ₆₄
22515 A	22215 K	SNW 15 x 2 ⁷ / ₁₆	2 ⁷ / ₁₆	5.1181	1.2205	2 ¹⁹ / ₆₄
22516 A	22216 K	SNW 16 x 2 ¹¹ / ₁₆	2 ¹¹ / ₁₆	5.5118	1.299	2 ³ / ₈
22517 A	22217 K	SNW 17 x 2 ¹⁵ / ₁₆	2 ¹⁵ / ₁₆	5.9055	1.417	2 ³¹ / ₆₄
22518 A	22218 K	SNW 18 x 3 ³ / ₁₆	3 ³ / ₁₆	6.2992	1.575	2 ⁴¹ / ₆₄
22520 A	22220 K	SNW 20 x 3 ⁷ / ₁₆	3 ⁷ / ₁₆	7.0866	1.811	2 ⁷ / ₈
22522 A	22222 K	SNW 22 x 3 ¹⁵ / ₁₆	3 ¹⁵ / ₁₆	7.8740	2.087	3 ¹³ / ₆₄
22524 A	22224 K	SNW 24 x 4 ³ / ₁₆	4 ³ / ₁₆	8.4646	2.283	3 ¹⁵ / ₃₂
22526 A	22226 K	SNW 26 x 4 ⁷ / ₁₆	4 ⁷ / ₁₆	9.0551	2.520	3 ⁴⁹ / ₆₄
22528 A	22228 K	SNW 28 x 4 ¹⁵ / ₁₆	4 ¹⁵ / ₁₆	9.8425	2.677	3 ⁶³ / ₆₄
22530 A	22230 K	SNW 30 x 5 ³ / ₁₆	5 ³ / ₁₆	10.6299	2.874	4 ¹⁵ / ₆₄
22532 A	22232 K	SNW 32 x 5 ⁷ / ₁₆	5 ⁷ / ₁₆	11.4173	3.150	4 ³⁷ / ₆₄
22534 A	22234 K	SNW 34 x 5 ¹⁵ / ₁₆	5 ¹⁵ / ₁₆	12.2047	3.386	4 ²⁷ / ₃₂
22536 A	22236 K	SNW 36 x 6 ⁷ / ₁₆	6 ⁷ / ₁₆	12.5984	3.386	5 ¹ / ₃₂
22538 A	22238 K	SNW 38 x 6 ¹⁵ / ₁₆	6 ¹⁵ / ₁₆	13.3858	3.622	5 ¹⁷ / ₆₄
22540 A	22240 K	SNW 40 x 7 ³ / ₁₆	7 ³ / ₁₆	14.1732	3.858	5 ³¹ / ₆₄
22544 A	22244 K	SNW 44 x 7 ¹⁵ / ₁₆	7 ¹⁵ / ₁₆	15.7480	4.252	5 ²⁹ / ₃₂

*Check for availability.

SERIES 226 A

Bearing & Adapter Complete	Bearing Only	Adapter Sleeve Nut & Washer	Shaft Dia. d	Outside Dia. D	Width B	Length Adapter Sleeve B ₂
22609 A	22309 K	SNW 109 x 1 ⁷ / ₁₆	1 ⁷ / ₁₆	3.9370	1.417	2 ⁹ / ₆₄
22610 A	22310 K	SNW 110 x 1 ¹¹ / ₁₆	1 ¹¹ / ₁₆	4.3307	1.575	2 ²⁵ / ₆₄
22611 A	22311 K	SNW 111 x 1 ¹⁵ / ₁₆	1 ¹⁵ / ₁₆	4.7244	1.693	2 ³³ / ₆₄
22613 A	22313 K	SNW 113 x 2 ³ / ₁₆	2 ³ / ₁₆	5.5118	1.890	2 ⁴⁹ / ₆₄
22615 A	22315 K	SNW 115 x 2 ⁷ / ₁₆	2 ⁷ / ₁₆	6.2992	2.165	3 ⁹ / ₆₄
22616 A	22316 K	SNW 116 x 2 ¹¹ / ₁₆	2 ¹¹ / ₁₆	6.6929	2.283	3 ¹³ / ₆₄
22617 A	22317 K	SNW 117 x 2 ¹⁵ / ₁₆	2 ¹⁵ / ₁₆	7.0866	2.362	3 ⁹ / ₁₆
22618 A	22318 K	SNW 118 x 3 ³ / ₁₆	3 ³ / ₁₆	7.4803	2.520	3 ³⁵ / ₆₄
22620 A	22320 K	SNW 120 x 3 ⁷ / ₁₆	3 ⁷ / ₁₆	8.4646	2.874	3 ³¹ / ₃₂
22622 A	22322 K	SNW 122 x 3 ¹⁵ / ₁₆	3 ¹⁵ / ₁₆	9.4488	3.150	4 ¹ / ₃₂
22624 A	22324 K	SNW 124 x 4 ³ / ₁₆	4 ³ / ₁₆	10.2362	3.386	4 ⁴¹ / ₆₄
22626 A	22326 K	SNW 126 x 4 ⁷ / ₁₆	4 ⁷ / ₁₆	11.0236	3.661	4 ⁶³ / ₆₄
22628 A	22328 K	SNW 128 x 4 ¹⁵ / ₁₆	4 ¹⁵ / ₁₆	11.8110	4.016	5 ²¹ / ₆₄
22630 A	22330 K	SNW 130 x 5 ³ / ₁₆	5 ³ / ₁₆	12.5984	4.252	5 ⁵ / ₈
22632 A	22332 K	SNW 132 x 5 ⁷ / ₁₆	5 ⁷ / ₁₆	13.3858	4.488	5 ⁵⁹ / ₆₄
22634 A	22334 K	SNW 134 x 5 ¹⁵ / ₁₆	5 ¹⁵ / ₁₆	14.1732	4.724	6 ³ / ₁₆
22636 A	22336 K	SNW 136 x 6 ⁷ / ₁₆	6 ⁷ / ₁₆	14.9606	4.961	6 ²⁹ / ₆₄
22638 A	22338 K	SNW 138 x 6 ¹⁵ / ₁₆	6 ¹⁵ / ₁₆	15.7480	5.197	6 ³ / ₄
22640 A	22340 K	SNW 140 x 7 ³ / ₁₆	7 ³ / ₁₆	16.5354	5.433	7 ³ / ₃₂

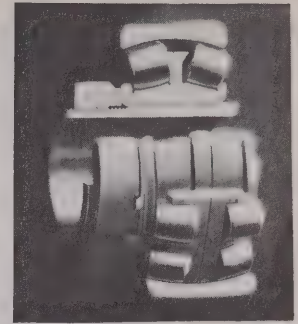
WHAT YOU GET when ordering typical SKF Transmission Appliances:

SAF 22320 (Straight Bore Mounting):

Pillow Block, SAF320; Spherical Roller Bearing, 22320; Locknut, AN-20; Lockwasher, W-20; Stabilizing Ring, SR-24-20 (if customer specifies held bearing).

SAF 22620A (Adapter Mounting):

Pillow Block, SAF 620; Bearing, 22620 A (identifies Spherical Roller Bearing, Adapter, Locknut and Lockwasher complete); Stabilizing Ring, SR-24-20 (if customer specifies held bearing)—Symbol for Bearing only is 22320K Spherical Roller Bearing—Symbol for Adapter is SNW-120 x 3⁷/₁₆" which includes Nut and Washer.



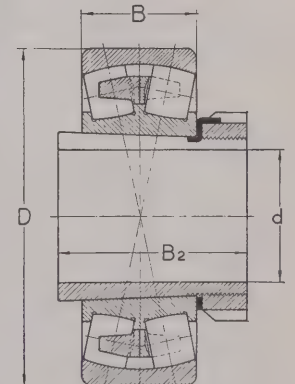
This Series used in:

SAF-225A- Pillow Blocks, Pg. 276

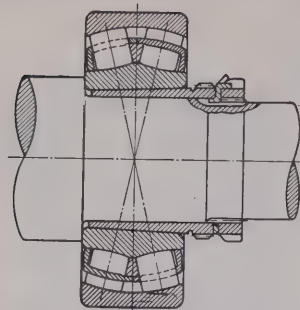
SDAF-225A- Pillow Blocks, Pg. 277

SAW-225-A Pillow Blocks, Pg. 278

Most 225-A and 226-A Series bearing sizes are now furnished in the improved internal "C" design. See Page 117.



This Series used in SAF-226-A and SDAF-226-A Pillow Blocks shown on Pages 276 and 277.



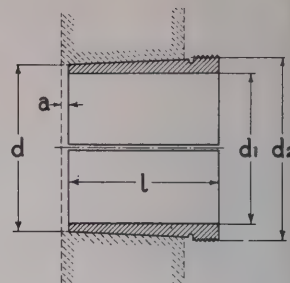
SKF REMOVABLE SLEEVES

for

SELF-ALIGNING BALL AND ROLLER BEARINGS

Not regularly scheduled for production. Consult us for availability.

For SERIES 1300K and 22200K

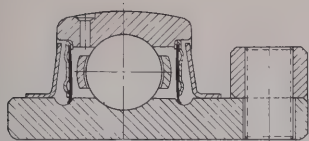


DESIGNATION FOR:			SLEEVE DIMENSIONS					DESIGNATION FOR:			
Ball Bearings	Roller Bearings	Sleeve Number	Small Bore d	Shaft Dia. d ₁	Pitch Dia. d ₂	l	a	Lock Nut	Lock Washer	REMOVAL NUT	
										No.	Threads per In.
.....	22216-K	SK-2216	3.1496	2.755	3.472	1.732	.138	N-14	W-14	ARN-16	12
1317-K	22217-K	ASK-17	3.3465	2.952	3.675	2.047	.138	AN-14	W-15	ARN-17	12
1318-K	22218-K	ASK-18	3.5433	3.149	3.863	2.087	.138	AN-16	W-16	ARN-18	12
1319-K	22219-K	ASK-19	3.7402	3.346	4.066	2.244	.157	AN-17	W-17	ARN-19	12
1320-K	22220-K	ASK-20	3.9370	3.543	4.269	2.323	.157	AN-18	W-18	ARN-20	12
1321-K	.....	ASK-21	4.1339	3.740	4.503	2.441	.157	AN-19	W-19	ARN-21	12
1322-K	22222-K	ASK-22	4.3307	3.937	4.722	2.559	.157	AN-20	W-20	ARN-22	12
1324-K	22224-K	ASK-24	4.7244	4.330	5.129	2.835	.157	AN-22	W-22	ARN-24	12
1326-K	22226-K	ASK-26	5.1181	4.527	5.566	3.071	.157	AN-22	W-22	ARN-26	12
1328-K	22228-K	SK-28	5.5118	4.921	6.013	3.228	.197	AN-24	W-24	RN-28	8
.....	22230-K	SK-30	5.9055	5.315	6.419	3.465	.197	AN-26	W-26	RN-30	8
.....	22232-K	SK-32	6.2992	5.512	6.841	3.780	.197	AN-28	W-28	RN-32	8
.....	22234-K	SK-34	6.6929	5.906	7.247	4.095	.197	AN-30	W-30	RN-34	8
.....	22236-K	SK-36	7.0866	6.299	7.669	4.095	.197	AN-32	W-32	RN-36	8
.....	22238-K	SK-38	7.4803	6.693	8.107	4.409	.197	AN-34	W-34	RN-38	8
.....	22240-K	SK-40	7.8740	7.087	8.544	4.646	.197	AN-36	W-36	RN-40	8
.....	22244-K	SK-44	8.6614	7.874	9.330	5.118	.236	AN-40	W-40	RN-44	6
.....	22248-K	SK-48	9.4488	8.661	10.080	5.669	.236	N-44	MB-44	RN-48	6
.....	22252-K	SK-52	10.2362	9.449	10.892	6.102	.236	N-48	MB-48	RN-52	6
.....	22256-K	SK-56	11.0236	10.236	11.861	6.102	.315	N-52	MB-52	RN-56	6
.....	22260-K	SK-60	11.8110	11.024	12.830	6.693	.315	N-56	MB-56	RN-60	6
.....	22264-K	SK-64	12.5984	11.811	13.611	7.087	.394	N-60	MB-60	RN-64	6

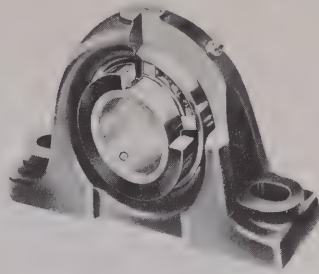
For SERIES 2300K and 22300K

DESIGNATION FOR:			SLEEVE DIMENSIONS					DESIGNATION FOR:			
Ball Bearings	Roller Bearings	Sleeve Number	Small Bore d	Shaft Dia. d ₁	Pitch Dia. d ₂	l	a	Lock Nut	Lock Washer	REMOVAL NUT	
										No.	Threads per In.
2308-K	22308-K	SK-108	1.5748	1.377	1.730	1.575	.118	N-07	W-07	RN-08	18
2309-K	22309-K	SK-109	1.7717	1.574	1.930	1.732	.118	N-08	W-08	RN-09	18
2310-K	22310-K	SK-110	1.9685	1.771	2.167	1.969	.118	N-09	W-09	RN-10	18
2311-K	22311-K	SK-111	2.1654	1.968	2.370	2.126	.118	N-10	W-10	RN-11	18
2312-K	22312-K	SK-112	2.3622	2.164	2.589	2.244	.138	N-11	W-11	RN-12	18
2313-K	22313-K	ASK-113	2.5591	2.361	2.878	2.402	.138	N-12	W-12	ARN-13	12
2314-K	22314-K	ASK-114	2.7559	2.361	3.082	2.559	.138	N-12	W-12	ARN-14	12
2315-K	22315-K	ASK-115	2.9528	2.558	3.285	2.717	.138	N-13	W-13	ARN-15	12
2316-K	22316-K	ASK-116	3.1496	2.755	3.472	2.835	.138	N-14	W-14	ARN-16	12
2317-K	22317-K	ASK-117	3.3465	2.952	3.675	2.953	.138	AN-15	W-15	ARN-17	12
2318-K	22318-K	ASK-118	3.5433	3.149	3.863	3.150	.138	AN-16	W-16	ARN-18	12
2319-K	22319-K	ASK-119	3.7402	3.346	4.066	3.346	.157	AN-17	W-17	ARN-19	12
2320-K	22320-K	ASK-120	3.9370	3.543	4.269	3.543	.157	AN-18	W-18	ARN-20	12
2321-K	22321-K	ASK-121	4.1339	3.740	4.503	3.701	.157	AN-19	W-19	ARN-21	12
2322-K	22322-K	ASK-122	4.3307	3.937	4.722	3.858	.157	AN-20	W-20	ARN-22	12
.....	22324-K	ASK-124	4.7244	4.330	5.129	4.134	.157	AN-22	W-22	ARN-24	12
.....	22326-K	ASK-126	5.1181	4.527	5.566	4.528	.157	AN-22	W-22	ARN-26	12
.....	22328-AK	SK-128	5.5118	4.921	6.013	4.921	.197	AN-24	W-24	RN-28	8
.....	22330-AK	SK-130	5.9055	5.315	6.419	5.315	.197	AN-26	W-26	RN-30	8
.....	22332-AK	SK-132	6.2992	5.512	6.841	5.512	.236	AN-28	W-28	RN-32	8
.....	22334-AK	SK-134	6.6929	5.906	7.247	5.748	.236	AN-30	W-30	RN-34	8
.....	22336-AK	SK-136	7.0866	6.299	7.669	6.063	.236	AN-32	W-32	RN-36	8
.....	22338-AK	SK-138	7.4803	6.693	8.107	6.299	.276	AN-34	W-34	RN-38	8
.....	22340-AK	SK-140	7.8740	7.087	8.544	6.693	.276	AN-36	W-36	RN-40	8
.....	22344-AK	SK-144	8.6614	7.874	9.330	7.126	.315	AN-40	W-40	RN-44	6
.....	22348-AK	SK-148	9.4488	8.661	10.080	7.441	.315	N-44	MB-44	RN-48	6
.....	22352-AK	SK-152	10.2362	9.449	10.892	7.874	.315	N-48	MB-48	RN-52	6
.....	22356-AK	SK-156	11.0236	10.236	11.861	8.268	.394	N-52	MB-52	RN-56	6

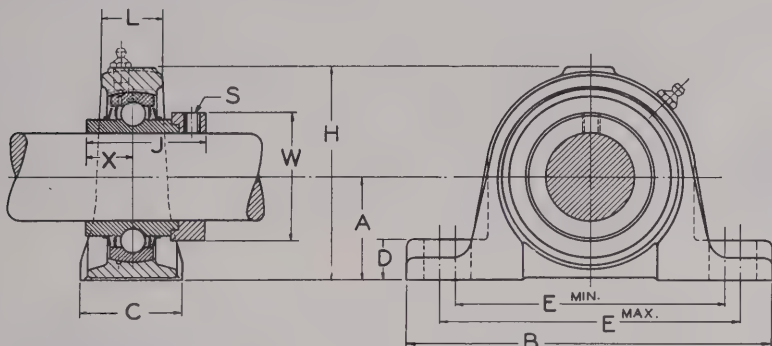
NEED HELP ON BEARINGS—CALL US



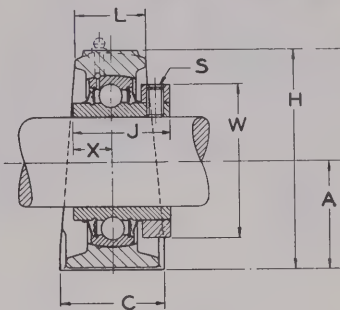
SKF PILLOW BLOCKS SYH-X—SY UNIT BALL BEARING TYPE



Equipped with spherical outer ring bearing. The wiping action of the Red Seal, made of DuPont Fairprene, against the inner ring is practically frictionless. Rotating flingers exclude dirt.



SYH-X Series
(Eccentric Collar Type)



SY Series
(Set Screw Collar Type)

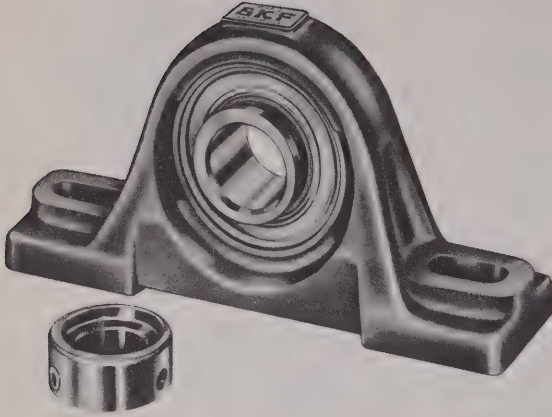
Shaft Diam. In.	Pillow Block Number	A In.	B In.	C In.	D In.	E		H In.	J In.	L In.	X In.	W In.	S Set Screw Size In.	Bolts (No. Req'd) In.	Bearing Used
						Min. In.	Max. In.								
3/4	SYH 12 X	1 1/4	5	1 3/8	9/16	3 7/16	4 3/16	2 1/2	1 3/4	3/4	4 3/4	1 1/2	1/4-28 x 1 1/4	(2) — 3/8	477204-012
7/8	SYH 14 X	1 5/8	5 1/8	1 1/2	9/16	3 11/16	4 5/16	2 3/4	1 3/4	7/8	11/16	1 1/2	1/4-28 x 1 1/4	(2) — 3/8	477205-014
1 1/16	SYH 15 X	1 7/8	5 3/8	1 1/2	9/16	3 11/16	4 5/16	2 3/4	1 3/4	7/8	11/16	1 1/2	1/4-28 x 1 1/4	(2) — 3/8	477205-015
1	SYH 100 X	1 7/8	5 3/8	1 1/2	9/16	3 11/16	4 5/16	2 3/4	1 3/4	7/8	11/16	1 1/2	1/4-28 x 1 1/4	(2) — 3/8	477205-100
1 1/8	SYH 102 X	1 9/8	6	1 3/4	9/16	4 1/4	5	3 1/4	1 3/4	1	2 3/4	1 3/4	5/16-24 x 5/8	(2) — 1/2	477206-102
1 1/8	SYH 103 X	1 9/8	6	1 3/4	9/16	4 1/4	5	3 1/4	1 3/4	1	2 3/4	1 3/4	5/16-24 x 5/8	(2) — 1/2	477206-103
1 1/4	SYH 104 X	1 11/8	6 1/4	1 7/8	1 1/16	4 11/16	5 1/4	3 11/16	2 1/4	1 1/8	4 7/8	2 1/2	5/16-24 x 5/8	(2) — 1/2	477207-104
1 1/4	SYH 105 X	1 11/8	6 1/4	1 7/8	1 1/16	4 11/16	5 1/4	3 11/16	2 1/4	1 1/8	4 7/8	2 1/2	5/16-24 x 5/8	(2) — 1/2	477207-105
1 1/8	SYH 106 X	1 11/8	6 1/4	1 7/8	1 1/16	4 11/16	5 1/4	3 11/16	2 1/4	1 1/8	4 7/8	2 1/2	5/16-24 x 5/8	(2) — 1/2	477207-106
1 1/8	SYH 107 X	1 11/8	6 1/4	1 7/8	1 1/16	4 11/16	5 1/4	3 11/16	2 1/4	1 1/8	4 7/8	2 1/2	5/16-24 x 5/8	(2) — 1/2	477207-107
1 1/8	SYH 108 X	1 11/8	6 1/4	1 7/8	1 1/16	4 11/16	5 1/4	3 11/16	2 1/4	1 1/8	4 7/8	2 1/2	5/16-24 x 5/8	(2) — 1/2	477208-108
1 1/2	SYH 110 X	2 1/8	7 3/8	2	3/4	5 5/16	6	4 1/4	2 7/8	1 3/8	2 7/8	2 1/2	5/16-24 x 5/8	(2) — 1/2	477209-110
1 1/2	SYH 111 X	2 1/8	7 3/8	2	3/4	5 5/16	6	4 1/4	2 7/8	1 3/8	2 7/8	2 1/2	5/16-24 x 5/8	(2) — 1/2	477209-111
1 3/4	SYH 112 X	2 1/2	7 3/8	2	3/4	5 5/16	6	4 1/4	2 7/8	1 3/8	2 7/8	2 1/2	5/16-24 x 5/8	(2) — 1/2	477209-112
1 5/8	SYH 115 X	2 3/8	8	2 1/2	1 1/8	5 7/8	6 3/4	4 9/8	2 15/16	1 7/8	3 1/2	2 3/4	5/16-24 x 5/8	(2) — 1/2	477210-115
2	SYH 200 X	2 1/2	8 3/8	2 3/8	1 1/8	6 3/8	7 1/8	5	2 15/16	1 7/8	3 1/2	2 3/4	5/16-24 x 5/8	(2) — 1/2	477211-200
2 1/8	SYH 203 X	2 1/2	8 3/8	2 3/8	1 1/8	6 3/8	7 1/8	5	2 15/16	1 7/8	3 1/2	2 3/4	5/16-24 x 5/8	(2) — 1/2	477211-203
2 1/4	SYH 204 X	2 11/8	9 1/4	2 1/2	1	7 1/16	7 1/16	5 1/2	3 1/16	1 3/4	1 1/2	3 1/2	5/16-24 x 5/8	(2) — 1/2	477212-204
2 1/4	SYH 207 X	2 11/8	9 1/4	2 1/2	1	7 1/16	7 1/16	5 1/2	3 1/16	1 3/4	1 1/2	3 1/2	5/16-24 x 5/8	(2) — 1/2	477212-207

SY SERIES

3/4	SY 12	1 1/4	5	1 3/8	9/16	3 7/16	4 3/16	2 1/2	1 3/4	3/4	1/2	1 1/2	10-32 x 3/8	(2) — 3/8	479204-012
7/8	SY 14	1 5/8	5 1/8	1 1/2	9/16	3 11/16	4 5/16	2 3/4	1 3/4	7/8	9/16	1 1/2	1/4-28 x 7/8	(2) — 3/8	479205-014
1 1/16	SY 15	1 7/8	5 3/8	1 1/2	9/16	3 11/16	4 5/16	2 3/4	1 3/4	7/8	9/16	1 1/2	1/4-28 x 7/8	(2) — 3/8	479205-015
1	SY 100	1 7/8	5 3/8	1 1/2	9/16	3 11/16	4 5/16	2 3/4	1 3/4	7/8	9/16	1 1/2	1/4-28 x 7/8	(2) — 3/8	479205-100
1 1/8	SY 101	1 11/8	6	1 3/4	1 1/16	4 1/4	5	3 3/8	1 1/2	1	5/8	1 1/2	1/4-28 x 7/8	(2) — 1/2	479206-101
1 1/8	SY 102	1 11/8	6	1 3/4	1 1/16	4 1/4	5	3 3/8	1 1/2	1	5/8	1 1/2	1/4-28 x 7/8	(2) — 1/2	479206-102
1 1/8	SY 103	1 11/8	6	1 3/4	1 1/16	4 1/4	5	3 3/8	1 1/2	1	5/8	1 1/2	1/4-28 x 7/8	(2) — 1/2	479206-103
1 1/4	SY 104	1 7/8	6 1/4	1 7/8	1 1/16	4 11/16	5 1/4	3 3/4	1 1/8	1 1/8	1 1/8	2 1/2	5/16-24 x 5/8	(2) — 1/2	479207-104
1 1/4	SY 105	1 7/8	6 1/4	1 7/8	1 1/16	4 11/16	5 1/4	3 3/4	1 1/8	1 1/8	1 1/8	2 1/2	5/16-24 x 5/8	(2) — 1/2	479207-105
1 1/8	SY 106	1 7/8	6 1/4	1 7/8	1 1/16	4 11/16	5 1/4	3 3/4	1 1/8	1 1/8	1 1/8	2 1/2	5/16-24 x 5/8	(2) — 1/2	479207-106
1 1/8	SY 107	1 7/8	6 1/4	1 7/8	1 1/16	4 11/16	5 1/4	3 3/4	1 1/8	1 1/8	1 1/8	2 1/2	5/16-24 x 5/8	(2) — 1/2	479207-107
1 1/8	SY 108	1 11/8	6 1/4	1 7/8	1 1/16	4 11/16	5 1/4	3 3/4	1 1/8	1 1/8	1 1/8	2 1/2	5/16-24 x 5/8	(2) — 1/2	479208-108
1 1/2	SY 110	2 1/8	7 3/8	2	3/4	5 5/16	6	4 1/4	2 7/8	1 3/8	2 7/8	2 1/2	5/16-24 x 5/8	(2) — 1/2	479209-110
1 1/2	SY 111	2 1/8	7 3/8	2	3/4	5 5/16	6	4 1/4	2 7/8	1 3/8	2 7/8	2 1/2	5/16-24 x 5/8	(2) — 1/2	479209-111
1 3/4	SY 112	2 1/2	7 3/8	2	3/4	5 5/16	6	4 1/4	2 7/8	1 3/8	2 7/8	2 1/2	5/16-24 x 5/8	(2) — 1/2	479209-112
1 5/8	SY 115	2 3/8	8	2 1/2	1 1/8	5 7/8	6 3/4	4 9/8	2 15/16	1 7/8	3 1/2	2 3/4	5/16-24 x 5/8	(2) — 1/2	479210-115
2	SY 200	2 1/2	8 3/8	2 3/8	1 1/8	6 3/8	7 1/8	5	2 15/16	1 7/8	3 1/2	2 3/4	5/16-24 x 5/8	(2) — 1/2	479211-200
2 1/8	SY 203	2 1/2	8 3/8	2 3/8	1 1/8	6 3/8	7 1/8	5	2 15/16	1 7/8	3 1/2	2 3/4	5/16-24 x 5/8	(2) — 1/2	479211-203
2 1/4	SY 204	2 11/8	9 1/4	2 1/2	1	7 1/16	7 1/16	5 1/2	3 1/16	1 3/4	1 1/2	3 1/2	5/16-24 x 5/8	(2) — 1/2	479212-204
2 1/4	SY 207	2 11/8	9 1/4	2 1/2	1	7 1/16	7 1/16	5 1/2	3 1/16	1 3/4	1 1/2	3 1/2	5/16-24 x 5/8	(2) — 1/2	479212-207
2 1/4	SY 208	3	10 1/8	2 5/8	1 1/8	7 1/8	8 1/8	6 1/8	2 11/16	1 13/16	1	4	5/8-24 x 5/8	(2) — 3/4	479213-208
2 1/4	SY 211	3	10 1/8	2 5/8	1 1/8	7 1/8	8 1/8	6 1/8	2 11/16	1 13/16	1	4	5/8-24 x 5/8	(2) — 3/4	479213-211
2 1/4	SY 212	3 1/4	10 3/8	2 3/4	1 1/4	8	9	6 9/16	2 7/8	1 7/8	1 1/8	4 3/8	5/8-24 x 5/8	(2) — 3/4	479215-212
2 1/4	SY 215	3 1/4	10 3/8	2 3/4	1 1/4	8	9	6 9/16	2 7/8	1 7/8	1 1/8	4 3/8	5/8-24 x 5/8	(2) — 3/4	479215-215
3 1/8	SY 307	3 3/4	12 3/8	3 1/4	1 3/8	9 3/8	10 5/8	7 1/16	3 3/16	2 1/2	1 3/8	5 1/8	5/8-24 x 5/8	(2) — 7/8	479217-307
3 1/8	SY 315	4 7/8	14 1/2	3 3/4	1 1/2	11	12 3/4	8 13/16	3 7/8	2 3/8	1 3/8	6	1 1/2-20 x 1	(2) — 7/8	479220-315
4	SY 400	4 7/8	14 1/2	3 3/4	1 1/2	11	12 3/4	8 13/16	3 7/8	2 3/8	1 3/8	6	1 1/2-20 x 1	(2) — 7/8	479220-400

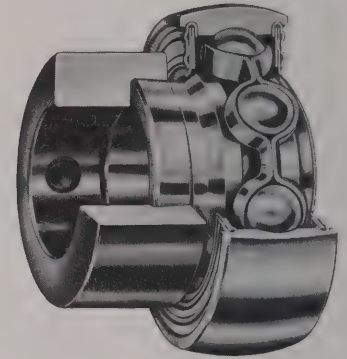
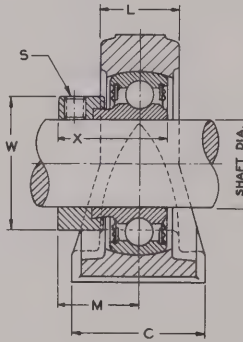
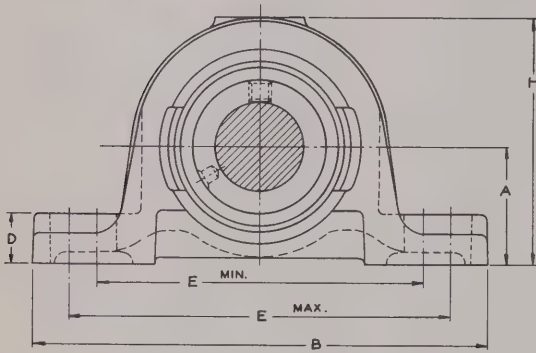
Recommended shaft tolerances: Up to 1 1/8", nominal to -.0005", 2" to 4", nominal to -.0010".
Lubrication fitting size: Up to and including 1" shaft size—1/4"—28; over 1" shaft size—1/8" P. T.

SKF BALL BEARING PILLOW BLOCKS SYP AND SYHP SERIES



This versatile and inexpensive "P" Series Pillow Block combines design simplicity and ruggedness with flexibility in application. These qualities make these units ideal for farm machinery, materials handling equipment, packaging machinery, and heating and ventilating equipment.

Important features of the "P" Series bearings include: Spherical outside diameter for initial self-alignment. Extended inner ring with eccentric locking collar. Laboratory-tested and service-proved "sandwich seal" which seals in the lubricant, seals out foreign matter. Factory lubrication with the right amount of long-life, filtered grease.



SYP SERIES

Shaft Dia.	Pillow Block No.	A	B	C	D	E		H	L	M	W	X	S Set Screw Size Inches	Bolts Number Required	Bearing Used
						Min.	Max.								
3/4"	SYP-12	1 5/16"	5"	1 3/8"	9/16"	3 7/16"	4 3/16"	2 5/16"	1 3/16"	.924"	1 5/16"	1 7/32"	1/4"-28 x 1/4" Lg.	(2)-3/8"	478204-012
1 1/8"	SYP-14	1 5/16"	5 1/8"	1 1/2"	9/16"	3 11/16"	4 5/16"	2 7/8"	7/8"	.924"	1 1/2"	1 7/32"	1/4"-28 x 1/4" Lg.	(2)-3/8"	478205-014
1 1/8"	SYP-15	1 5/16"	5 1/8"	1 1/2"	9/16"	3 11/16"	4 5/16"	2 7/8"	7/8"	.924"	1 1/2"	1 7/32"	1/4"-28 x 1/4" Lg.	(2)-3/8"	478205-015
1 1/8"	SYP-100	1 5/16"	5 1/8"	1 1/2"	9/16"	3 11/16"	4 5/16"	2 7/8"	7/8"	.924"	1 1/2"	1 7/32"	1/4"-28 x 1/4" Lg.	(2)-3/8"	478205-100
1 1/8"	SYP-101	1 11/16"	6"	1 3/4"	1 1/16"	4 1/4"	5"	3 3/8"	1"	1.052"	1 3/4"	1 13/32"	5/16"-24 x 5/16" Lg.	(2)-1/2"	478206-101
1 1/8"	SYP-102	1 11/16"	6"	1 3/4"	1 1/16"	4 1/4"	5"	3 3/8"	1"	1.052"	1 3/4"	1 13/32"	5/16"-24 x 5/16" Lg.	(2)-1/2"	478206-102
1 1/8"	SYP-103	1 11/16"	6"	1 3/4"	1 1/16"	4 1/4"	5"	3 3/8"	1"	1.052"	1 3/4"	1 13/32"	5/16"-24 x 5/16" Lg.	(2)-1/2"	478206-103
1 1/8"	SYP-104A	1 11/16"	6"	1 3/4"	1 1/16"	4 1/4"	5"	3 3/8"	1"	1.052"	1 3/4"	1 13/32"	5/16"-24 x 5/16" Lg.	(2)-1/2"	478206-104
1 1/4"	SYP-104	1 7/8"	6 1/4"	1 7/8"	3/4"	4 11/16"	5 1/4"	3 3/4"	1 1/8"	1.157"	2 3/16"	1 17/32"	3/8"-24 x 3/8" Lg.	(2)-1/2"	478207-104
1 1/4"	SYP-105	1 7/8"	6 1/4"	1 7/8"	3/4"	4 11/16"	5 1/4"	3 3/4"	1 1/8"	1.157"	2 3/16"	1 17/32"	3/8"-24 x 3/8" Lg.	(2)-1/2"	478207-105
1 1/4"	SYP-106	1 7/8"	6 1/4"	1 7/8"	3/4"	4 11/16"	5 1/4"	3 3/4"	1 1/8"	1.157"	2 3/16"	1 17/32"	3/8"-24 x 3/8" Lg.	(2)-1/2"	478207-106
1 1/4"	SYP-107	1 7/8"	6 1/4"	1 7/8"	3/4"	4 11/16"	5 1/4"	3 3/4"	1 1/8"	1.157"	2 3/16"	1 17/32"	3/8"-24 x 3/8" Lg.	(2)-1/2"	478207-107

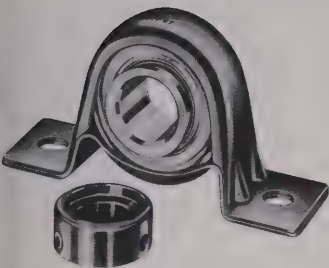
SYHP SERIES

1 1/2"	SYHP-8	1 1/8"	4 5/8"	1 1/4"	1/2"	3 1/4"	3 15/16"	2 1/8"	1 1/16"	.869"	1 1/8"	1 1/8"	1/4"-28 x 1/4" Lg.	(2)-3/8"	478203-008
1 1/2"	SYHP-10	1 1/8"	4 5/8"	1 1/4"	1/2"	3 1/4"	3 15/16"	2 1/8"	1 1/16"	.869"	1 1/8"	1 1/8"	1/4"-28 x 1/4" Lg.	(2)-3/8"	478203-010
3/4"	SYHP-12	1 1/4"	5"	1 3/8"	1/2"	3 7/16"	4 3/16"	2 1/2"	1 3/16"	.924"	1 5/16"	1 7/32"	1/4"-28 x 1/4" Lg.	(2)-3/8"	478204-012
1 1/8"	SYHP-14	1 5/16"	5 1/8"	1 1/2"	9/16"	3 11/16"	4 5/16"	2 3/4"	7/8"	.924"	1 1/2"	1 7/32"	1/4"-28 x 1/4" Lg.	(2)-3/8"	478205-014
1 1/8"	SYHP-15	1 5/16"	5 1/8"	1 1/2"	9/16"	3 11/16"	4 5/16"	2 3/4"	7/8"	.924"	1 1/2"	1 7/32"	1/4"-28 x 1/4" Lg.	(2)-3/8"	478205-015
1 1/8"	SYHP-100	1 5/16"	5 1/8"	1 1/2"	9/16"	3 11/16"	4 5/16"	2 3/4"	7/8"	.924"	1 1/2"	1 7/32"	1/4"-28 x 1/4" Lg.	(2)-3/8"	478205-100
1 1/8"	SYHP-101	1 11/16"	6"	1 3/4"	9/16"	4 1/4"	5"	3 3/4"	1"	1.052"	1 3/4"	1 13/32"	5/16"-24 x 5/16" Lg.	(2)-1/2"	478206-101
1 1/8"	SYHP-102	1 11/16"	6"	1 3/4"	9/16"	4 1/4"	5"	3 3/4"	1"	1.052"	1 3/4"	1 13/32"	5/16"-24 x 5/16" Lg.	(2)-1/2"	478206-102
1 1/8"	SYHP-103	1 11/16"	6"	1 3/4"	9/16"	4 1/4"	5"	3 3/4"	1"	1.052"	1 3/4"	1 13/32"	5/16"-24 x 5/16" Lg.	(2)-1/2"	478206-103
1 1/8"	SYHP-104A	1 11/16"	6"	1 3/4"	9/16"	4 1/4"	5"	3 3/4"	1"	1.052"	1 3/4"	1 13/32"	5/16"-24 x 5/16" Lg.	(2)-1/2"	478206-104
1 1/4"	SYHP-104	1 13/16"	6 1/4"	1 7/8"	1 1/16"	4 11/16"	5 1/4"	3 11/16"	1 1/8"	1.157"	2 3/16"	1 17/32"	3/8"-24 x 3/8" Lg.	(2)-1/2"	478207-104
1 1/4"	SYHP-105	1 13/16"	6 1/4"	1 7/8"	1 1/16"	4 11/16"	5 1/4"	3 11/16"	1 1/8"	1.157"	2 3/16"	1 17/32"	3/8"-24 x 3/8" Lg.	(2)-1/2"	478207-105
1 1/4"	SYHP-106	1 13/16"	6 1/4"	1 7/8"	1 1/16"	4 11/16"	5 1/4"	3 11/16"	1 1/8"	1.157"	2 3/16"	1 17/32"	3/8"-24 x 3/8" Lg.	(2)-1/2"	478207-106
1 1/4"	SYHP-107	1 13/16"	6 1/4"	1 7/8"	1 1/16"	4 11/16"	5 1/4"	3 11/16"	1 1/8"	1.157"	2 3/16"	1 17/32"	3/8"-24 x 3/8" Lg.	(2)-1/2"	478207-107

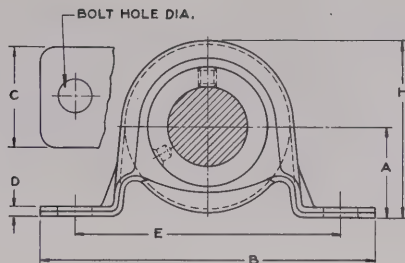
NEED HELP ON BEARINGS—CALL US

SKF BALL BEARING UNITS

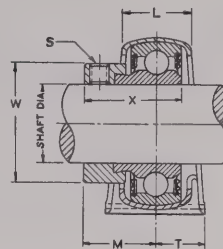
TYPE SP and SRP PRESSED STEEL PILLOW BLOCKS



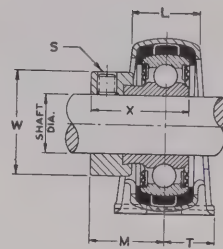
A complete economy unit
Rugged-neat-compact.



Approximate speed limit 2500 RPM.



SP Type



SRP type
(with rubber
mounted bearing)

The SP type pillow block is designed for light-duty applications to provide the advantages of quality ball bearings at low cost. The separable two-piece pressed steel housing accommodates the spherically-ground outside diameter of the bearing to allow initial self-alignment in all directions.

The SRP pillow block follows the same design as the SP type. It has a rubber insert which is grounded. It is ideal for small ventilating fans and other applications where noise is objectionable. The bearing together with the rubber interliner comprise an RP cartridge.

SP TYPE

Shaft Dia.	Pillow Block No.	A	B	C	D	E	H	L	M	T	W	X	S Set Screw Size Inches	Bolt Hole Dia.	Bolts Number Required	Bearing Used
$\frac{1}{2}$ " $\frac{5}{8}$ "	SP-8 SP-10	$\frac{7}{8}$ "	$3\frac{3}{8}$ "	1"	.112"	$2\frac{11}{16}$ "	$1\frac{23}{32}$ "	$\frac{3}{4}$ "	.869"	$\frac{1}{2}$ "	$1\frac{1}{8}$ "	$1\frac{1}{8}$ "	$\frac{1}{4}$ "-28 x $\frac{1}{4}$ " Lg.	$\frac{3}{8}$ "	(2)- $\frac{5}{16}$ "	478203-008 478203-010
$\frac{3}{4}$ "	SP-12	1"	$3\frac{7}{8}$ "	$1\frac{1}{4}$ "	.112"	3"	$1\frac{63}{64}$ "	$\frac{7}{8}$ "	.924"	$\frac{5}{8}$ "	$1\frac{5}{16}$ "	$1\frac{1}{32}$ "	$\frac{1}{4}$ "-28 x $\frac{1}{4}$ " Lg.	$\frac{3}{8}$ "	(2)- $\frac{5}{16}$ "	478204-012
$\frac{7}{8}$ " $1\frac{1}{8}$ " 1"	SP-14 SP-15 SP-100	$1\frac{1}{8}$ "	$4\frac{1}{4}$ "	$1\frac{1}{4}$ "	.124"	$3\frac{3}{8}$ "	$2\frac{21}{64}$ "	$\frac{7}{8}$ "	.924"	$\frac{5}{8}$ "	$1\frac{1}{2}$ "	$1\frac{1}{32}$ "	$\frac{1}{4}$ "-28 x $\frac{1}{4}$ " Lg.	$\frac{7}{16}$ "	(2)- $\frac{3}{8}$ "	478205-014 478205-015 478205-100
$1\frac{1}{16}$ " $1\frac{1}{8}$ " $1\frac{1}{2}$ " $1\frac{3}{4}$ "	SP-101 SP-102 SP-103 SP-104A	$1\frac{5}{16}$ "	$4\frac{5}{8}$ "	$1\frac{1}{2}$ "	.147"	$3\frac{3}{4}$ "	$2\frac{19}{32}$ "	1"	1.052"	$\frac{3}{4}$ "	$1\frac{3}{4}$ "	$1\frac{13}{32}$ "	$\frac{5}{16}$ "-24 x $\frac{5}{16}$ " Lg.	$\frac{7}{16}$ "	(2)- $\frac{3}{8}$ "	478206-101 478206-102 478206-103 478206-104

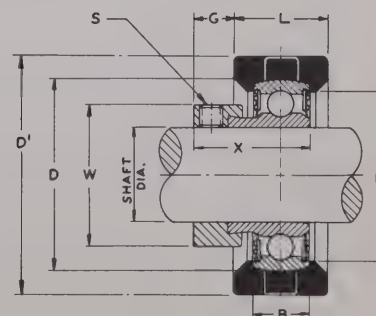
SRP TYPE (WITH RUBBER MOUNTED BEARING)

$\frac{3}{4}$ "	SRP-12	$1\frac{1}{8}$ "	$4\frac{1}{4}$ "	$1\frac{1}{4}$ "	.124"	$3\frac{3}{8}$ "	$2\frac{21}{64}$ "	$\frac{7}{8}$ "	.924"	$\frac{5}{8}$ "	$1\frac{5}{16}$ "	$1\frac{1}{32}$ "	$\frac{1}{4}$ "-28 x $\frac{1}{4}$ " Lg.	$\frac{7}{16}$ "	(2)- $\frac{3}{8}$ "	478204-012
$\frac{7}{8}$ " $1\frac{1}{8}$ " 1"	SRP-14 SRP-15 SRP-100	$1\frac{5}{16}$ "	$4\frac{5}{8}$ "	$1\frac{1}{2}$ "	.147"	$3\frac{3}{4}$ "	$2\frac{19}{32}$ "	1"	.924"	$\frac{3}{4}$ "	$1\frac{1}{2}$ "	$1\frac{1}{32}$ "	$\frac{1}{4}$ "-28 x $\frac{1}{4}$ " Lg.	$\frac{7}{16}$ "	(2)- $\frac{3}{8}$ "	478205-014 478205-015 478205-100

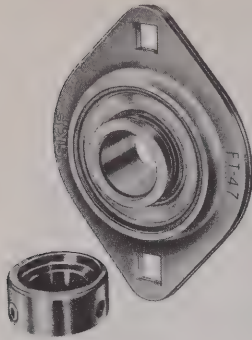
RP TYPE CYLINDRICAL CARTRIDGE

(BALL BEARING WITH RUBBER RING)

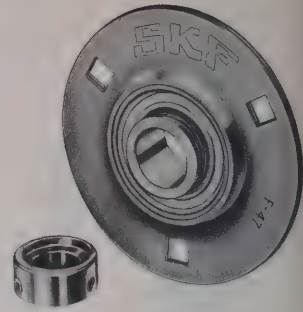
Shaft Dia.	Unit No.	B	D	D ¹	F	G	L	W	X	S Set Screw Size Inches	Bearing Used
$\frac{3}{4}$ "	RP-12	.5906"	1.8504"	$2\frac{17}{32}$ "	$1\frac{9}{16}$ "	$2\frac{7}{64}$ "	1"	$1\frac{5}{16}$ "	$1\frac{1}{32}$ "	$\frac{1}{4}$ "-28 x $\frac{1}{4}$ " Lg.	478204-012
$\frac{7}{8}$ " $1\frac{1}{8}$ " 1"	RP-14 RP-15 RP-100	.5906"	2.0472"	$2\frac{17}{32}$ "	$1\frac{25}{16}$ "	$2\frac{7}{64}$ "	1"	$1\frac{1}{2}$ "	$1\frac{1}{32}$ "	$\frac{1}{4}$ "-28 x $\frac{1}{4}$ " Lg.	478205-014 478205-015 478205-100



SKF BALL BEARINGS PRESSED STEEL FLANGES FP AND FTP SERIES

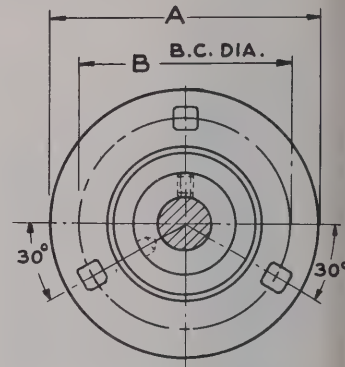
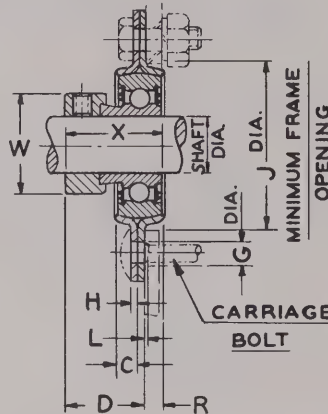
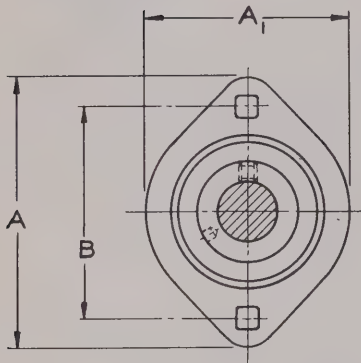


FTP Series
(Two Bolt Type)



FP Series
(Three Bolt Type)

The SKF pressed steel flanges are designed for light duty, slow speed applications. They offer quality ball bearing performance at low cost. The Flanges are comprised of two pressed steel stampings which house a fully sealed Ball Bearing with self-locking collar, providing a complete, inexpensive unit mount. Compact, easily installed, and prelubricated, they are ideal for numerous light duty applications.



FP SERIES (3-Bolt Type)

Shaft Dia.	Unit No.	A	B	C	D	G†	H	J	R	W	X	Bolt Hole Width	Bolt Size	L		Bearing Used	Stamping No. Only
														Short Shank	Long Shank		
1/2"	FP-8	3 5/16"	2 1/2"	9/32"	15/16"	13/32"	.075"	1 15/16"	7/32"	1 1/8"	1 1/8"	9/32"	1/4"	.006"	.100"	478203-008	F-40
5/8"	FP-10															478203-010	
3/4"	FP-12	3 3/16"	2 5/16"	5/16"	1"	1/2"	.083"	2 3/16"	1/4"	1 5/16"	1 7/32"	1 1/32"	5/16"	.021"	.115"	478204-012	F-47
7/8"	FP-14															478205-014	
1 1/16"	FP-15	3 3/4"	3"	5/16"	1"	1/2"	.083"	2 3/8"	1/4"	1 1/2"	1 7/32"	1 1/32"	5/16"	.021"	.115"	478205-015	F-52
1"	FP-100															478205-100	
1 1/16"	FP-101															478206-101	
1 1/8"	FP-102	4 7/16"	3 3/16"	1 1/32"	1 5/32"	1 9/32"	.104"	2 13/16"	1/4"	1 3/4"	1 13/32"	1 3/32"	3/8"	.011"	.104"	478206-102	F-62
1 1/4"	FP-103															478206-103	
1 1/4"	FP-104A															478206-104	
1 1/4"	FP-104	4 13/16"	3 15/16"	3/8"	1 17/64"	1 9/32"	.104"	3 3/16"	9/32"	2 3/16"	1 17/32"	1 3/32"	3/8"	.011"	.104"	478207-104	F-72
1 1/8"	FP-105															478207-105	
1 3/8"	FP-106															478207-106	
1 1/2"	FP-107															478207-107	

FTP SERIES (2-Bolt Type)

Shaft Dia.	Unit No.	A	A ¹	B	C	D	G†	H	J	R	W	X	Bolt Hole Width	Bolt Size	L		Bearing Used	Stamping No. Only
															Short Shank	Long Shank		
1/2"	FTP-8	3 5/16"	2 5/16"	2 1/2"	9/32"	15/16"	13/32"	.075"	1 15/16"	7/32"	1 1/8"	1 1/8"	9/32"	1/4"	.006"	.100"	478203-008	FT-40
5/8"	FTP-10																478203-010	
3/4"	FTP-12	3 3/16"	2 5/8"	2 13/16"	5/16"	1"	1/2"	.083"	2 3/16"	1/4"	1 5/16"	1 7/32"	1 1/32"	5/16"	.021"	.115"	478204-012	FT-47
7/8"	FTP-14																478205-014	
1 1/16"	FTP-15	3 3/4"	2 5 1/4"	3"	5/16"	1"	1/2"	.083"	2 3/8"	1/4"	1 1/2"	1 7/32"	1 1/32"	5/16"	.021"	.115"	478205-015	FT-52
1"	FTP-100																478205-100	
1 1/16"	FTP-101																478206-101	
1 1/8"	FTP-102	4 7/16"	3 3/16"	3 3/16"	1 1/32"	1 5/32"	1 9/32"	.104"	2 13/16"	1/4"	1 3/4"	1 13/32"	1 3/32"	3/8"	.011"	.104"	478206-102	FT-62
1 1/4"	FTP-103																478206-103	
1 1/4"	FTP-104A																478206-104	

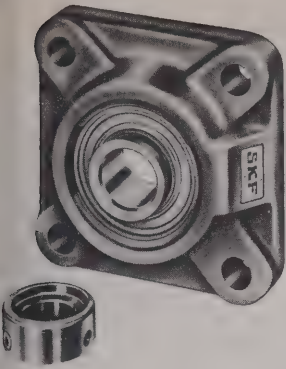
† Flange hole diameter to clear square shank.

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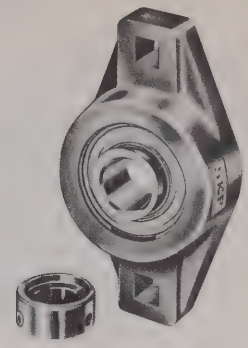
SKF FLANGED UNITS

FYP AND FYTP SERIES

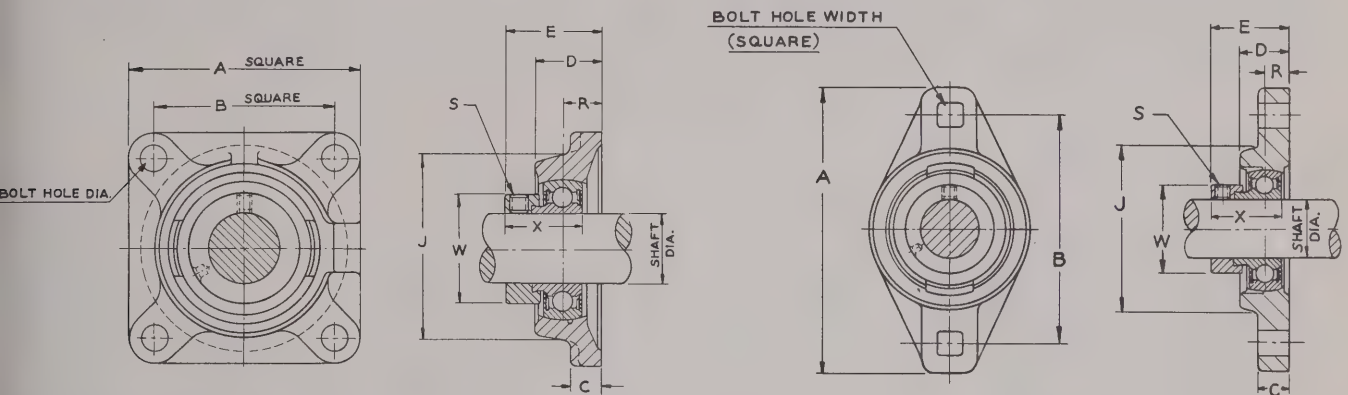
The FYP and FYTP Series SKF Flange Units have durable cast iron one piece housings. The factory lubricated bearings have "sandwich type" seals for positive dirt exclusion and lubricant retention. These units are self-aligning and easy to use. The complete assembly is simply slipped on shaft and locked in place with the eccentric locking collar. The bolt holes are spaced to provide interchangeability with other mountings of similar design.



FYP Series
(Four Bolt Type)



FYTP Series
(Two Bolt Type)



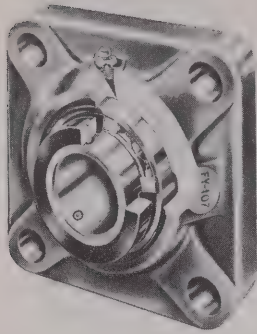
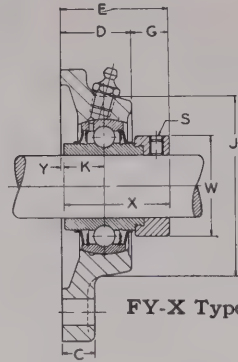
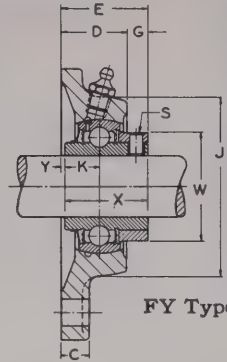
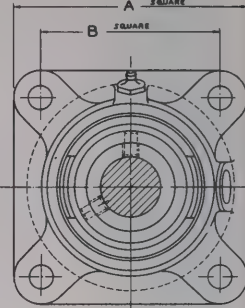
FYP SERIES (Four Bolt Type)

Shaft Dia.	Flanged Unit No.	A	B	C	D	E	J	R	W	X	S Set Screw Size Inches	Bolt Hole Dia.	Bolts Number Required	Bearing Used
$\frac{1}{2}$ " $\frac{5}{8}$ "	FYP-8 FYP-10	3"	$2\frac{3}{8}$ "	$\frac{3}{8}$ "	$\frac{29}{32}$ "	$1\frac{1}{16}$ "	$2\frac{1}{8}$ "	$\frac{9}{16}$ "	$1\frac{1}{8}$ "	$1\frac{1}{8}$ "	$\frac{1}{4}$ "-28 x $\frac{1}{4}$ " Lg.	$\frac{13}{32}$ "	(4)- $\frac{3}{8}$ "	478203-008 478203-010
$\frac{3}{4}$ "	FYP-12	$3\frac{3}{8}$ "	$2\frac{1}{2}$ "	$\frac{5}{8}$ "	$1\frac{1}{8}$ "	$1\frac{43}{64}$ "	$2\frac{3}{8}$ "	$\frac{3}{4}$ "	$1\frac{5}{16}$ "	$1\frac{7}{32}$ "	$\frac{1}{4}$ "-28 x $\frac{1}{4}$ " Lg.	$\frac{13}{32}$ "	(4)- $\frac{3}{8}$ "	478204-012
$\frac{7}{8}$ " $1\frac{1}{16}$ " 1"	FYP-14 FYP-15 FYP-100	$3\frac{3}{4}$ "	$2\frac{3}{4}$ "	$\frac{5}{8}$ "	$1\frac{3}{16}$ "	$1\frac{43}{64}$ "	$2\frac{3}{4}$ "	$\frac{3}{4}$ "	$1\frac{1}{2}$ "	$1\frac{7}{32}$ "	$\frac{1}{4}$ "-28 x $\frac{1}{4}$ " Lg.	$\frac{15}{32}$ "	(4)- $\frac{7}{16}$ "	478205-014 478205-015 478205-100
$1\frac{1}{16}$ " $1\frac{1}{8}$ " $1\frac{3}{16}$ " $1\frac{1}{4}$ "	FYP-101 FYP-102 FYP-103 FYP-104A	$4\frac{1}{4}$ "	$3\frac{3}{4}$ "	$\frac{19}{32}$ "	$1\frac{9}{32}$ "	$1\frac{53}{64}$ "	$3\frac{3}{4}$ "	$\frac{25}{32}$ "	$1\frac{3}{4}$ "	$1\frac{13}{32}$ "	$\frac{5}{16}$ "-24 x $\frac{5}{16}$ " Lg.	$\frac{15}{32}$ "	(4)- $\frac{7}{16}$ "	478206-101 478206-102 478206-103 478206-104
$1\frac{1}{4}$ " $1\frac{5}{16}$ " $1\frac{3}{8}$ " $1\frac{7}{16}$ "	FYP-104 FYP-105 FYP-106 FYP-107	$4\frac{5}{8}$ "	$3\frac{5}{8}$ "	$\frac{39}{64}$ "	$1\frac{23}{64}$ "	$1\frac{61}{64}$ "	$3\frac{5}{8}$ "	$\frac{51}{64}$ "	$2\frac{3}{16}$ "	$1\frac{17}{32}$ "	$\frac{3}{8}$ "-24 x $\frac{3}{8}$ " Lg.	$\frac{17}{32}$ "	(4)- $\frac{1}{2}$ "	478207-104 478207-105 478207-106 478207-107

FYTP SERIES (Two Bolt Type)

Shaft Dia.	Flanged Unit No.	A	B	C	D	E	J	R	W	X	S Set Screw Size Inches	Bolt Hole Width	* Bolt Size	Bearing Used
$\frac{1}{2}$ " $\frac{5}{8}$ "	FYTP-8 FYTP-10	$3\frac{7}{8}$ "	3"	$\frac{7}{16}$ "	$\frac{3}{4}$ "	$1\frac{9}{32}$ "	$2\frac{1}{8}$ "	$\frac{13}{32}$ "	$1\frac{1}{8}$ "	$1\frac{1}{8}$ "	$\frac{1}{4}$ "-28 x $\frac{1}{4}$ " Lg.	$\frac{13}{32}$ "	$\frac{3}{8}$ "	478203-008 478203-010
$\frac{3}{4}$ "	FYTP-12	$4\frac{13}{32}$ "	$3\frac{11}{32}$ "	$\frac{7}{16}$ "	$\frac{51}{64}$ "	$1\frac{11}{32}$ "	$2\frac{3}{8}$ "	$\frac{27}{64}$ "	$1\frac{5}{16}$ "	$1\frac{7}{32}$ "	$\frac{1}{4}$ "-28 x $\frac{1}{4}$ " Lg.	$\frac{13}{32}$ "	$\frac{3}{8}$ "	478204-012
$\frac{7}{8}$ " $1\frac{1}{16}$ " 1"	FYTP-14 FYTP-15 FYTP-100	$4\frac{7}{8}$ "	$3\frac{57}{64}$ "	$\frac{17}{32}$ "	$\frac{27}{32}$ "	$1\frac{11}{32}$ "	$2\frac{3}{4}$ "	$\frac{27}{64}$ "	$1\frac{1}{2}$ "	$1\frac{7}{32}$ "	$\frac{1}{4}$ "-28 x $\frac{1}{4}$ " Lg.	$\frac{15}{32}$ "	$\frac{7}{16}$ "	478205-014 478205-015 478205-100
$1\frac{1}{16}$ " $1\frac{1}{8}$ " $1\frac{3}{16}$ " $1\frac{1}{4}$ "	FYTP-101 FYTP-102 FYTP-103 FYTP-104A	$5\frac{9}{16}$ "	$4\frac{19}{32}$ "	$\frac{17}{32}$ "	1"	$1\frac{35}{64}$ "	$3\frac{1}{8}$ "	$\frac{1}{2}$ "	$1\frac{3}{4}$ "	$1\frac{13}{32}$ "	$\frac{5}{16}$ "-24 x $\frac{5}{16}$ " Lg.	$\frac{15}{32}$ "	$\frac{7}{16}$ "	478206-101 478206-102 478206-103 478206-104
$1\frac{1}{4}$ " $1\frac{5}{16}$ " $1\frac{3}{8}$ " $1\frac{7}{16}$ "	FYTP-104 FYTP-105 FYTP-106 FYTP-107	$6\frac{1}{8}$ "	$5\frac{1}{8}$ "	$\frac{9}{16}$ "	$1\frac{5}{32}$ "	$1\frac{3}{4}$ "	$3\frac{5}{8}$ "	$\frac{19}{32}$ "	$2\frac{3}{16}$ "	$1\frac{17}{32}$ "	$\frac{3}{8}$ "-24 x $\frac{3}{8}$ " Lg.	$\frac{17}{32}$ "	$\frac{1}{2}$ "	478207-104 478207-105 478207-106 478207-107

*Square mounting holes permit the use of carriage or standard machine bolts.

SKF BALL BEARING FLANGED UNITS
**FY
AND
FY-X
TYPE**
**FY-X Type****FY Type**

Equipped with ball bearings employing SKF Red Seals, made of Dupont Fairprene, plus rotating fingers. Wiping action of the seal against the inner ring of the bearing is practically frictionless.

Spherical outer ring of bearing compensates for initial misalignment. The "FY" Unit uses collar with set-screws and "FY-X" Units use eccentric locking collar for locking bearing to shaft.

FY SERIES

Shaft Diam. In.	Flange Unit No.	A	B	C	D	E	G	J	K	X	Y	W	Bolts Req'd	Bearing Used
$\frac{3}{4}$	FY- 12	$3\frac{3}{8}$	$2\frac{1}{2}$	$\frac{5}{8}$	$1\frac{1}{8}$	$1\frac{15}{32}$	$1\frac{1}{32}$	$2\frac{3}{8}$	$\frac{1}{2}$	$1\frac{7}{32}$	$\frac{1}{4}$	$1\frac{1}{2}$	4— $\frac{3}{8}$	479204-012
$\frac{7}{8}$	FY- 14	$3\frac{3}{4}$	$2\frac{3}{4}$	$\frac{5}{8}$	$1\frac{3}{16}$	$1\frac{19}{16}$	$\frac{3}{8}$	$2\frac{3}{4}$	$\frac{9}{16}$	$1\frac{3}{8}$	$\frac{3}{16}$	$1\frac{23}{32}$	4— $\frac{7}{16}$	479205-014
$\frac{15}{16}$	FY- 15	$3\frac{3}{4}$	$2\frac{3}{4}$	$\frac{5}{8}$	$1\frac{3}{16}$	$1\frac{19}{16}$	$\frac{3}{8}$	$2\frac{3}{4}$	$\frac{9}{16}$	$1\frac{3}{8}$	$\frac{3}{16}$	$1\frac{23}{32}$	4— $\frac{7}{16}$	479205-015
1	FY-100	$3\frac{3}{4}$	$2\frac{3}{4}$	$\frac{5}{8}$	$1\frac{3}{16}$	$1\frac{19}{16}$	$\frac{3}{8}$	$2\frac{3}{4}$	$\frac{9}{16}$	$1\frac{3}{8}$	$\frac{3}{16}$	$1\frac{23}{32}$	4— $\frac{7}{16}$	479205-100
$1\frac{1}{16}$	FY-101	$4\frac{1}{4}$	$3\frac{1}{4}$	$\frac{19}{32}$	$1\frac{9}{32}$	$1\frac{21}{32}$	$\frac{3}{8}$	$3\frac{1}{4}$	$\frac{5}{8}$	$1\frac{1}{2}$	$\frac{5}{32}$	$1\frac{31}{32}$	4— $\frac{7}{16}$	479206-101
$1\frac{1}{8}$	FY-102	$4\frac{1}{4}$	$3\frac{1}{4}$	$\frac{19}{32}$	$1\frac{9}{32}$	$1\frac{21}{32}$	$\frac{3}{8}$	$3\frac{1}{4}$	$\frac{5}{8}$	$1\frac{1}{2}$	$\frac{5}{32}$	$1\frac{31}{32}$	4— $\frac{7}{16}$	479206-102
$1\frac{1}{4}$	FY-103	$4\frac{1}{4}$	$3\frac{1}{4}$	$\frac{19}{32}$	$1\frac{9}{32}$	$1\frac{21}{32}$	$\frac{3}{8}$	$3\frac{1}{4}$	$\frac{5}{8}$	$1\frac{1}{2}$	$\frac{5}{32}$	$1\frac{31}{32}$	4— $\frac{7}{16}$	479206-103
$1\frac{1}{2}$	FY-104	$4\frac{5}{8}$	$3\frac{5}{8}$	$\frac{5}{8}$	$1\frac{3}{8}$	$1\frac{13}{16}$	$\frac{7}{16}$	$3\frac{5}{8}$	$\frac{11}{16}$	$1\frac{11}{16}$	$\frac{1}{8}$	$2\frac{1}{2}$	4— $\frac{1}{2}$	479207-104
$1\frac{5}{8}$	FY-105	$4\frac{5}{8}$	$3\frac{5}{8}$	$\frac{5}{8}$	$1\frac{3}{8}$	$1\frac{13}{16}$	$\frac{7}{16}$	$3\frac{5}{8}$	$\frac{11}{16}$	$1\frac{11}{16}$	$\frac{1}{8}$	$2\frac{1}{2}$	4— $\frac{1}{2}$	479207-105
$1\frac{3}{4}$	FY-106	$4\frac{5}{8}$	$3\frac{5}{8}$	$\frac{5}{8}$	$1\frac{3}{8}$	$1\frac{13}{16}$	$\frac{7}{16}$	$3\frac{5}{8}$	$\frac{11}{16}$	$1\frac{11}{16}$	$\frac{1}{8}$	$2\frac{1}{2}$	4— $\frac{1}{2}$	479207-106
$1\frac{7}{8}$	FY-107	$4\frac{5}{8}$	$3\frac{5}{8}$	$\frac{5}{8}$	$1\frac{3}{8}$	$1\frac{13}{16}$	$\frac{7}{16}$	$3\frac{5}{8}$	$\frac{11}{16}$	$1\frac{11}{16}$	$\frac{1}{8}$	$2\frac{1}{2}$	4— $\frac{1}{2}$	479207-107
$1\frac{15}{16}$	FY-108	$5\frac{1}{8}$	4	$\frac{21}{32}$	$1\frac{17}{32}$	$2\frac{3}{32}$	$\frac{9}{16}$	4	$\frac{3}{4}$	$1\frac{15}{16}$	$\frac{5}{32}$	$2\frac{11}{16}$	4— $\frac{1}{2}$	479208-108
2	FY-110	$5\frac{1}{8}$	$4\frac{1}{8}$	$\frac{11}{16}$	$1\frac{19}{32}$	$2\frac{3}{32}$	$\frac{1}{2}$	$4\frac{1}{4}$	$\frac{3}{4}$	$1\frac{15}{16}$	$\frac{5}{32}$	$2\frac{7}{8}$	4— $\frac{9}{16}$	479209-110
$2\frac{1}{16}$	FY-111	$5\frac{3}{8}$	$4\frac{1}{8}$	$\frac{11}{16}$	$1\frac{19}{32}$	$2\frac{3}{32}$	$\frac{1}{2}$	$4\frac{1}{4}$	$\frac{3}{4}$	$1\frac{15}{16}$	$\frac{5}{32}$	$2\frac{7}{8}$	4— $\frac{9}{16}$	479209-111
$2\frac{1}{8}$	FY-112	$5\frac{3}{8}$	$4\frac{1}{8}$	$\frac{11}{16}$	$1\frac{19}{32}$	$2\frac{3}{32}$	$\frac{1}{2}$	$4\frac{1}{4}$	$\frac{3}{4}$	$1\frac{15}{16}$	$\frac{5}{32}$	$2\frac{7}{8}$	4— $\frac{9}{16}$	479209-112
$2\frac{1}{4}$	FY-115	$5\frac{3}{8}$	$4\frac{3}{8}$	$\frac{25}{32}$	$1\frac{3}{4}$	$2\frac{5}{16}$	$\frac{9}{16}$	$4\frac{5}{8}$	$\frac{3}{4}$	$2\frac{1}{2}$	$\frac{9}{32}$	$3\frac{1}{4}$	4— $\frac{9}{16}$	479210-115
$2\frac{1}{2}$	FY-200	$6\frac{3}{8}$	$5\frac{1}{8}$	$\frac{27}{32}$	$1\frac{7}{8}$	$2\frac{15}{32}$	$\frac{19}{32}$	5	$\frac{7}{8}$	$2\frac{3}{16}$	$\frac{9}{32}$	$3\frac{1}{2}$	4— $\frac{5}{8}$	479211-200
$2\frac{3}{4}$	FY-203	$6\frac{3}{8}$	$5\frac{1}{8}$	$\frac{27}{32}$	$1\frac{7}{8}$	$2\frac{15}{32}$	$\frac{19}{32}$	5	$\frac{7}{8}$	$2\frac{3}{16}$	$\frac{9}{32}$	$3\frac{1}{2}$	4— $\frac{5}{8}$	479211-203
$2\frac{1}{2}$	FY-204	$6\frac{7}{8}$	$5\frac{5}{8}$	$\frac{27}{32}$	$2\frac{1}{8}$	$2\frac{27}{32}$	$\frac{11}{16}$	$5\frac{1}{2}$	1	$2\frac{9}{16}$	$\frac{9}{32}$	$3\frac{3}{4}$	4— $\frac{5}{8}$	479212-204
$2\frac{3}{4}$	FY-207	$6\frac{7}{8}$	$5\frac{5}{8}$	$\frac{27}{32}$	$2\frac{1}{8}$	$2\frac{27}{32}$	$\frac{11}{16}$	$5\frac{1}{2}$	1	$2\frac{9}{16}$	$\frac{9}{32}$	$3\frac{3}{4}$	4— $\frac{5}{8}$	479212-207
$2\frac{1}{2}$	FY-208	$7\frac{1}{8}$	$5\frac{7}{8}$	$\frac{11}{16}$	$2\frac{1}{8}$	$2\frac{13}{16}$	$\frac{25}{32}$	6	1	$2\frac{11}{16}$	$\frac{1}{8}$	4	4— $\frac{5}{8}$	479213-208
$2\frac{11}{16}$	FY-211	$7\frac{1}{8}$	$5\frac{7}{8}$	$\frac{11}{16}$	$2\frac{1}{8}$	$2\frac{13}{16}$	$\frac{25}{32}$	6	1	$2\frac{11}{16}$	$\frac{1}{8}$	4	4— $\frac{5}{8}$	479213-211
$2\frac{3}{4}$	FY-212	$7\frac{3}{4}$	6	$\frac{3}{4}$	$2\frac{3}{8}$	3	$\frac{7}{8}$	$6\frac{3}{8}$	$\frac{11}{16}$	$2\frac{7}{8}$	$\frac{1}{8}$	$4\frac{3}{8}$	4— $\frac{3}{4}$	479215-212
$2\frac{15}{16}$	FY-215	$7\frac{3}{4}$	6	$\frac{3}{4}$	$2\frac{3}{8}$	3	$\frac{7}{8}$	$6\frac{3}{8}$	$\frac{11}{16}$	$2\frac{7}{8}$	$\frac{1}{8}$	$4\frac{3}{8}$	4— $\frac{3}{4}$	479215-215

FY-X SERIES

Shaft Diam. In.	Flange Unit No.	A	B	C	D	E	G	J	K	X	Y	W	Bolts Req'd	Bearing Used
$\frac{3}{4}$	FY- 12-X	$3\frac{3}{8}$	$2\frac{1}{2}$	$\frac{5}{8}$	$1\frac{1}{8}$	$1\frac{25}{32}$	$2\frac{1}{32}$	$2\frac{3}{8}$	$\frac{43}{64}$	$1\frac{23}{32}$	$\frac{1}{16}$	$1\frac{5}{16}$	4— $\frac{3}{8}$	477204-012
$\frac{7}{8}$	FY- 14-X	$3\frac{3}{4}$	$2\frac{3}{4}$	$\frac{5}{8}$	$1\frac{3}{16}$	$1\frac{13}{16}$	$\frac{5}{8}$	$2\frac{3}{4}$	$\frac{11}{16}$	$1\frac{3}{4}$	$\frac{1}{16}$	$1\frac{1}{2}$	4— $\frac{7}{16}$	477205-014
$\frac{15}{16}$	FY- 15-X	$3\frac{3}{4}$	$2\frac{3}{4}$	$\frac{5}{8}$	$1\frac{3}{16}$	$1\frac{13}{16}$	$\frac{5}{8}$	$2\frac{3}{4}$	$\frac{11}{16}$	$1\frac{3}{4}$	$\frac{1}{16}$	$1\frac{1}{2}$	4— $\frac{7}{16}$	477205-015
1	FY-100-X	$3\frac{3}{4}$	$2\frac{3}{4}$	$\frac{5}{8}$	$1\frac{3}{16}$	$1\frac{13}{16}$	$\frac{5}{8}$	$2\frac{3}{4}$	$\frac{11}{16}$	$1\frac{3}{4}$	$\frac{1}{16}$	$1\frac{1}{2}$	4— $\frac{7}{16}$	477205-100
$1\frac{1}{8}$	FY-102-X	$4\frac{1}{4}$	$3\frac{1}{4}$	$\frac{19}{32}$	$1\frac{9}{32}$	$1\frac{31}{32}$	$\frac{11}{16}$	$3\frac{1}{4}$	$\frac{23}{32}$	$1\frac{29}{32}$	$\frac{1}{16}$	$1\frac{3}{4}$	4— $\frac{7}{16}$	477206-102
$1\frac{1}{4}$	FY-103-X	$4\frac{1}{4}$	$3\frac{1}{4}$	$\frac{19}{32}$	$1\frac{9}{32}$	$1\frac{31}{32}$	$\frac{11}{16}$	$3\frac{1}{4}$	$\frac{23}{32}$	$1\frac{29}{32}$	$\frac{1}{16}$	$1\frac{3}{4}$	4— $\frac{7}{16}$	477206-103
$1\frac{1}{2}$	FY-104-X	$4\frac{5}{8}$	$3\frac{5}{8}$	$\frac{5}{8}$	$1\frac{3}{8}$	$2\frac{5}{64}$	$\frac{23}{32}$	$3\frac{3}{8}$	$\frac{47}{64}$	$2\frac{1}{64}$	$\frac{1}{16}$	$2\frac{3}{16}$	4— $\frac{1}{2}$	477207-104
$1\frac{5}{8}$	FY-105-X	$4\frac{5}{8}$	$3\frac{5}{8}$	$\frac{5}{8}$	$1\frac{3}{8}$	$2\frac{5}{64}$	$\frac{23}{32}$	$3\frac{3}{8}$	$\frac{47}{64}$	$2\frac{1}{64}$	$\frac{1}{16}$	$2\frac{3}{16}$	4— $\frac{1}{2}$	477207-105
$1\frac{3}{4}$	FY-106-X	$4\frac{5}{8}$	$3\frac{5}{8}$	$\frac{5}{8}$	$1\frac{3}{8}$	$2\frac{5}{64}$	$\frac{23}{32}$	$3\frac{3}{8}$	$\frac{47}{64}$	$2\frac{1}{64}$	$\frac{1}{16}$	$2\frac{3}{16}$	4— $\frac{1}{2}$	477207-106
$1\frac{7}{8}$	FY-107-X	$4\frac{5}{8}$	$3\frac{5}{8}$	$\frac{5}{8}$	$1\frac{3}{8}$	$2\frac{5}{64}$	$\frac{23}{32}$	$3\frac{3}{8}$	$\frac{47}{64}$	$2\frac{1}{64}$	$\frac{1}{16}$	$2\frac{3}{16}$	4— $\frac{1}{2}$	477207-107
$1\frac{1}{2}$	FY-108-X	$5\frac{1}{8}$	4	$\frac{21}{32}$	$1\frac{17}{32}$	$2\frac{9}{32}$	$\frac{3}{4}$	4	$\frac{27}{32}$	$2\frac{1}{32}$	$\frac{1}{16}$	$2\frac{3}{8}$	4— $\frac{1}{2}$	477208-108
$1\frac{5}{8}$	FY-110-X	$5\frac{3}{8}$	$4\frac{1}{8}$	$\frac{11}{16}$	$1\frac{19}{32}$	$2\frac{9}{32}$	$\frac{11}{16}$	$4\frac{1}{4}$	$\frac{27}{32}$	$2\frac{1}{32}$	$\frac{1}{16}$	$2\frac{1}{2}$	4— $\frac{9}{16}$	477209-110
$1\frac{11}{16}$	FY-111-X	$5\frac{3}{8}$	$4\frac{1}{8}$	$\frac{11}{16}$	$1\frac{19}{32}$	$2\frac{9}{32}$	$\frac{11}{16}$	$4\frac{1}{4}$	$\frac{27}{32}$	$2\frac{1}{32}$	$\frac{1}{16}$	$2\frac{1}{2}$	4— $\frac{9}{16}$	477209-111
$1\frac{3}{4}$	FY-112-X	$5\frac{3}{8}$	$4\frac{1}{8}$	$\frac{11}{16}$	$1\frac{19}{32}$	$2\frac{9}{32}$	$\frac{11}{16}$	$4\frac{1}{4}$	$\frac{27}{32}$	$2\frac{1}{32}$	$\frac{1}{16}$	$2\frac{1}{2}$	4— $\frac{9}{16}$	477209-112
$1\frac{15}{16}$	FY-115-X	$5\frac{3}{8}$	$4\frac{3}{8}$	$\frac{25}{32}$	$1\frac{3}{4}$	$2\frac{17}{32}$	$\frac{25}{32}$	$4\frac{5}{8}$	$\frac{31}{32}$	$2\frac{15}{32}$	$\frac{1}{16}$	$2\frac{3}{4}$	4— $\frac{9}{16}$	477210-115
2	FY-200-X	$6\frac{3}{8}$	$5\frac{1}{8}$	$\frac{27}{32}$	$1\frac{7}{8}$	$2\frac{7}{8}$	1	5	$\frac{13}{32}$	$2\frac{13}{16}$	$\frac{1}{16}$	3	4— $\frac{5}{8}$	477211-200
$2\frac{1}{16}$	FY-203-X	$6\frac{3}{8}$	$5\frac{1}{8}$	$\frac{27}{32}$	$1\frac{7}{8}$	$2\frac{7}{8}$	1	5	$\frac{13}{32}$	$2\frac{13}{16}$	$\frac{1}{16}$	3	4— $\frac{5}{8}$	477211-203
$2\frac{1}{4}$	FY-204-X	$6\frac{7}{8}$	$5\frac{5}{8}$	$\frac{27}{32}$	$2\frac{1}{8}$	$3\frac{1}{8}$	$\frac{31}{32}$	$5\frac{1}{2}$	$\frac{17}{32}$	$3\frac{1}{16}$	$\frac{1}{16}$	$3\frac{5}{16}$	4— $\frac{5}{8}$	477212-204
$2\frac{3}{4}$	FY-207-X	$6\frac{7}{8}$	$5\frac{5}{8}$	$\frac{27}{32}$	$2\frac{1}{8}$	$3\frac{1}{8}$	$\frac{31}{32}$	$5\frac{1}{2}$	$\frac{17}{32}$	$3\frac{1}{16}$	$\frac{1}{16}$	$3\frac{5}{16}$	4— $\frac{5}{8}$	477212-207

Lubrication fitting size: Up to and including 1" shaft— $\frac{1}{4}$ -28; over 1" shaft size— $\frac{1}{8}$ " P.T.

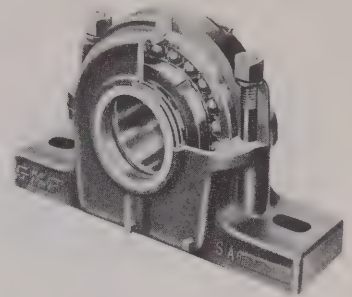
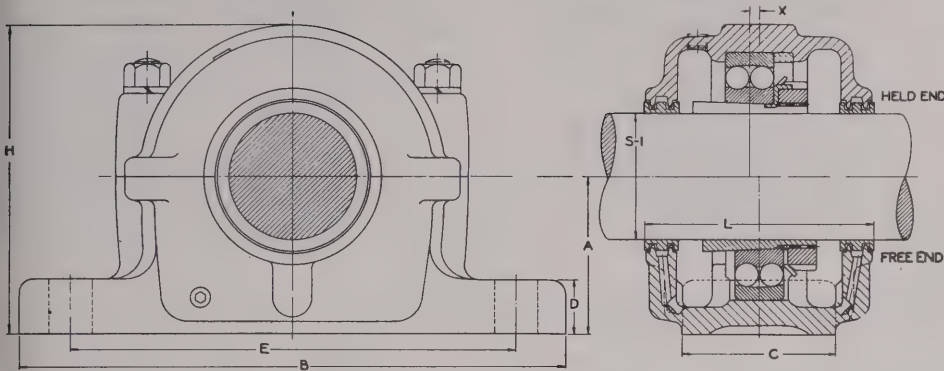
Recommended shaft tolerances: Up to $1\frac{15}{16}$ " nominal to $-.0005$ "
2" to $2\frac{15}{16}$ " nominal to $-.0010$ "

NEED HELP ON BEARINGS—CALL US

SKF BALL BEARING PILLOW BLOCKS

SPLIT HOUSING—TRIPLE SEAL

ADAPTER MOUNTING



Pillow blocks with letter "L" on the foot after the pillow block number are equipped with LER rings. LER and ER rings are *not* interchangeable.

SERIES SAF 15 A (Normal Duty)

Shaft Dia. † S-1 In.	Complete Pillow Block Number	Pillow Block Housing Only	Bearing Used	Adapter Locknut and Lockwasher	A	B	C	D	E		H	L	X	Bolts Req'd.	Triple Seal Ring (2 required)		Stabilizing Ring* (and Number Required)
					In.	In.	In.	In.	Max. In.	Min. In.	In.	In.	In.				
3/4	SAF 1505 A	SAF 505	1205 K	SNW 05	1 1/2	6 1/2	1 3/4	1 1/8	5 1/2	4 3/8	2 15/16	2 7/8	1/2	2-1/2	ER 103	LER 6	1-SR- 5- 4
1 1/8	SAF 1506 A	SAF 506	1206 K	SNW 06	1 3/4	7 1/2	2	1 1/8	6 1/8	5 1/4	3 3/8	3 1/4	3/8	2-1/2	ER 106	LER 10	1-SR- 6- 5
1 1/4	SAF 1507 A	SAF 507	1207 K	SNW 07	2	7 3/4	2	1 3/8	6 1/2	5 5/8	3 13/16	3 3/4	3/8	2-1/2	ER 109	LER 14	1-SR- 7- 6
1 1/2	SAF 1509 A	SAF 509	1209 K	SNW 09	2 1/4	8 1/4	2 3/8	1 3/8	7	6 3/4	4 3/8	3 3/8	3/8	2-1/2	ER 112	LER 17	1-SR- 9- 0
1 5/8	SAF 1510 A	SAF 510	1210 K	SNW 10	2 1/2	8 3/4	2 3/8	1 5/8	7	6 1/2	4 3/4	3 3/8	3/8	2-1/2	ER 115	LER 20	1-SR-10- 8
1 3/4	SAF 1511 A	SAF 511	1211 K	SNW 11	2 3/4	9 5/8	2 3/4	1 5/8	7 7/8	7 3/8	5 1/4	3 7/8	3/8	2-3/8	ER 118	LER 24	1-SR-11- 9
2 1/8	SAF 1513 A	SAF 513	1213 K	SNW 13	3	11	3 1/8	1	9 1/2	8 1/8	5 15/16	4 1/2	...	2-3/8	ER 121	LER 29	2-SR-13- 0
2 1/4	SAF 1515 A	SAF 515	1215 K	SNW 15	3 1/4	11 1/4	3 1/8	1 1/8	9 3/8	8 3/8	6 3/8	4 3/4	...	2-3/8	ER 124	LER 37	2-SR-15- 0
2 1/2	SAF 1516 A	SAF 516	1216 K	SNW 16	3 1/2	13	3 1/2	1 3/8	11	9 3/8	6 7/8	4 7/8	...	2-3/4	ER 130	LER 44	2-SR-1516
2 5/8	SAF 1517 A	SAF 517	1217 K	SNW 17	3 3/4	13	3 3/4	1 1/2	11	9 7/8	7 1/8	5	...	2-3/4	ER 137	LER 53	2-SR-1517

SAF-15A Series Blocks are supplied with 2 bolt holes, but can be furnished with 4 bolt holes at additional cost. Specify on order when required.

SERIES SAF 16 A (Medium Duty)

Shaft Dia. † S-1 In.	Complete Pillow Block Number	Pillow Block Housing Only	Bearing Used	Adapter Locknut and Lockwasher	A	B	C	D	E		F	H	L	X	Bolts Req'd.	Triple Seal Ring (2 required)		Stabilizing Ring* (and Number Required)
					In.	In.	In.	In.	Max. In.	Min. In.	In.	In.	In.	In.				
1 1/8	SAF 1609 A	SAF 609	1309 K	SNW 09	2 3/4	9 5/8	2 3/4	1	7 7/8	7 3/8	...	5 1/8	4 1/4	...	2-1/2	ER 112	LER 17	2-SR-1609
1 1/4	SAF 1610 A	SAF 610	1310 K	SNW 10	3	10 5/8	2 3/4	1 1/8	9	7 3/4	...	5 13/16	4 5/8	...	2-1/2	ER 115	LER 20	2-SR-1610
1 1/2	SAF 1611 A	SAF 611	1311 K	SNW 11	3 1/4	11	3 1/8	1 3/8	9 1/2	8 1/8	...	6 1/8	4 7/8	...	2-1/2	ER 118	LER 24	2-SR-1611
2 1/8	SAF 1613 A	SAF 613	1313 K	SNW 13	3 1/2	13	3 1/8	1 1/4	11	9 3/8	...	6 15/16	5 3/8	...	2-3/4	ER 121	LER 32	2-SR-1613
2 1/4	SAF 1615 A	SAF 615	1315 K	SNW 15	4	13 3/4	3 1/8	1 1/8	11 1/8	10 3/8	...	7 13/16	6 1/4	...	2-3/4	ER 127	LER 37	2-SR-1615
2 1/2	SAF 1616 A	SAF 616	1316 K	SNW 16	4 1/4	14 1/4	3 1/8	1 1/8	12 3/8	10 5/8	...	8 3/4	6 1/2	...	2-3/4	ER 133	LER 44	2-SR-1616
2 5/8	SAF 1617 A	SAF 617	1317 K	SNW 17	4 3/4	15 1/4	4 3/8	1 3/8	13 1/8	11 3/8	...	8 7/8	6 3/4	...	2-3/4	ER 141	LER 59	2-SR-1617
3 1/8	SAF 1618 A	SAF 618	1318 K	SNW 18	4 3/4	15 3/4	4 3/8	1 5/8	13 1/2	12	2 1/4	9 1/4	6 3/8	...	4-3/4	ER 145	LER 69	2-SR-1618
3 1/4	SAF 1620 A	SAF 620	1320 K	SNW 20	5 1/4	16 1/2	4 3/4	1 3/4	14 1/2	13 1/4	2 3/4	10 1/4	7 3/8	...	4-3/4	ER 149	LER 75	2-SR-1620
3 11/16	SAF 1621 A	SAF 621	1321 K	SNW 21	5 1/2	17 3/4	5 3/8	1 7/8	15 3/8	14 1/4	3	10 3/4	8	3/8	4-7/8	ER 153	LER 85	1-SR-0-21
3 5/8	SAF 1622 A	SAF 622	1322 K	SNW 22	6	18 3/8	5 1/2	1 3/4	16	14 3/4	3 1/4	11 1/8	8	...	4-7/8	ER 161	LER 93	2-SR-1622

SAF 609 to 617 inclusive normally supplied with 2 bolt holes, but can be furnished with 4 bolt holes at additional cost. Specify on order when required.

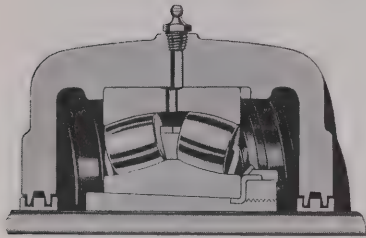
†When specified, Pillow Blocks can be furnished for "English" shaft sizes, which are 1/16" larger than standards shown above.

*Specify Stabilizing Ring for "held" bearing. Only one bearing on each shaft should be held.

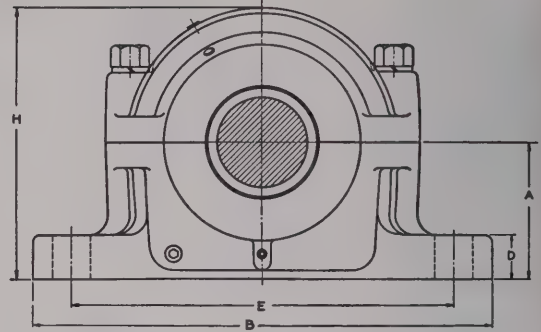
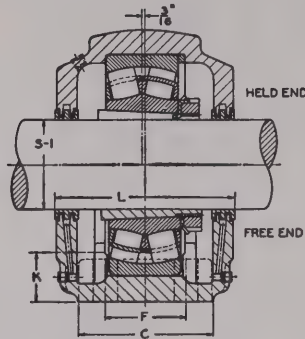
EXAMPLE, HOW TO ORDER: When you order 1-SAF 1511 A you will receive a package containing 1-SAF 511 Pillow Block Housing, 1 No. 1211 K Bearing and 1 No. SNW 11 Adapter. If your order specifies "held" bearing, you will receive, in addition, the necessary stabilizing rings. If you specify "one end closed," the required end plug will be included.

SKF SPHERICAL ROLLER BEARING PILLOW BLOCKS

ADAPTER MOUNTING—SPLIT HOUSING



Sizes 22515 thru 22544 and sizes 22613 thru 22640 feature "center hole" lubrication design, as illustrated.



SERIES SAF 225A (Heavy Duty)—TRIPLE SEALED

Shaft Diam. † S-1 in.	Complete Pillow Block Number	Pillow Block Housing Only	□ Bearing Used	Adapter Locknut & Lock- washer	A		B	C	D	E		F	H	L	Bolts (No. Req'd)	Stabiliz- ing Ring* (1 re- quired)	Triple Seal Ring (2 required) **	
					in.	in.	in.	in.	Max. in.	Min. in.	in.	in.	in.	in.	in.	in.		
1 1/16	SAF 22509 A	SAF 509	22209 K	SNW 09	2 1/4	8 1/4	2 3/8	1 3/16	7	6 1/4	...	4 3/8	3 5/8	(2) — 1/2	SR-9-9	ER 112	LER 17	
1 11/16	SAF 22510 A	SAF 510	22210 K	SNW 10	2 1/2	8 3/4	2 3/8	1 5/16	7	6 1/2	...	4 3/4	3 5/8	(2) — 1/2	SR-10-0	ER 115	LER 20	
1 15/16	SAF 22511 A	SAF 511	22211 K	SNW 11	2 3/4	9 3/8	2 3/4	1 15/16	7 7/8	7 3/8	...	5 1/4	3 3/8	(2) — 5/8	SR-11-0	ER 118	LER 24	
2 3/16	SAF 22513 A	SAF 513	22213 K	SNW 13	3	11	3 3/8	1	9 1/2	8 1/8	...	5 15/16	4 1/2	(2) — 3/4	SR-13-0	ER 121	LER 29	
2 7/16	SAF 22515 A	SAF 515	22215 K	SNW 15	3 1/4	11 1/4	3 3/8	1 1/8	9 3/8	8 3/8	1 1/8	6 3/8	4 3/4	(2) — 5/8	SR-15-0	ER 124	LER 37	
2 11/16	SAF 22516 A	SAF 516	22216 K	SNW 16	3 1/2	13	3 1/2	1 1/8	11	9 5/8	2 1/8	6 7/8	4 7/8	(2) — 3/4	SR-16-13	ER 130	LER 44	
2 15/16	SAF 22517 A	SAF 517	22217 K	SNW 17	3 3/4	13	3 3/4	1 1/4	11	9 7/8	2 1/8	7 5/8	5	(2) — 3/4	SR-17-14	ER 137	LER 53	
3 3/16	SAF 22518 A	SAF 518	22218 K	SNW 18	4	13 3/4	3 3/8	1 1/2	11 3/8	10 3/8	2 1/8	7 3/4	5 3/4	(2) — 3/4	SR-18-15	ER 145	LER 69	
3 7/16	SAF 22520 A	SAF 520	22220 K	SNW 20	4 1/4	15 1/4	4 3/8	1 5/8	13 3/8	11 3/8	2 3/8	8 11/16	6	(2) — 3/4	SR-20-17	ER 149	LER 75	
3 11/16	SAF 22522 A	SAF 522	22222 K	SNW 22	4 11/16	16 1/2	4 3/4	1 5/8	14 1/2	12 3/8	2 3/4	9 1/8	6 1/2	(4) — 3/4	SR-22-19	ER 157	LER 93	
4 3/16	SAF 22524 A	SAF 524	22224 K	SNW 24	5 1/4	16 3/8	4 3/4	1 3/4	14 1/2	13 1/4	2 3/4	10 3/4	7 3/8	(4) — 3/4	SR-24-20	ER 165	LER 113	
4 7/16	SAF 22526 A	SAF 526	22226 K	SNW 26	6	18 3/8	5 3/8	1 7/8	16	14 3/8	3 3/4	11 11/16	8	(4) — 3/8	SR-26-0	ER 173	LER 117	
4 11/16	SAF 22528 A	SAF 528	22228 K	SNW 28	6	20 3/8	5 3/8	1 15/16	17 3/8	16	3 3/4	12	7 5/8	(4) — 1	SR-28-0	ER 178	LER 122	
5 3/16	SAF 22530 A	SAF 530	22230 K	SNW 30	6 5/16	21 1/4	6 3/4	2	18 1/4	17	3 3/4	12 11/16	8 3/8	(4) — 1	SR-30-0	ER 182	LER 125	
5 7/16	SAF 22532 A	SAF 532	22232 K	SNW 32	6 11/16	22	6 3/4	2	19 3/4	17 3/8	3 3/4	13 1/16	8 3/4	(4) — 1	SR-32-0	ER 186	LER 130	
5 15/16	SAF 22534 A	SAF 534	22234 K	SNW 34	7 1/16	24 3/8	6 3/4	2 1/8	21 3/8	19 3/8	4 1/4	14 5/16	9 5/8	(4) — 1	SR-34-0	ER 194	LER 140	
6 3/16	SAF 22536 A	SAF 536	22236 K	SNW 36	7 3/8	26 3/4	7 3/8	2 3/8	23 3/8	20 7/8	4 3/4	15 5/16	10	(4) — 1	SR-36-30	ER 204	LER 148	
6 7/16	SAF 22538 A	SAF 538	22238 K	SNW 38	7 7/8	28	7 1/2	2 3/4	24 3/8	21 3/8	4 3/4	16 3/16	10 5/8	(4) — 1 1/4	SR-38-32	ER 216	LER 224	
7 3/16	SAF 22540 A	SAF 540	22240 K	SNW 40	8 1/4	29 3/8	8	2 3/4	25	22 3/8	5	17 1/16	11 1/8	(4) — 1 1/4	SR-40-34	ER 222	LER 228	
7 7/16	SAF 22544 A	SAF 544	22244 K	SNW 44	9 1/2	32 3/4	8 3/4	2 3/4	27 3/8	24 3/4	5 1/4	19 1/16	11 1/8	(4) — 1 1/2	SR-44-38	ER 228	LER 236	

SERIES SAF 226A (Extra Heavy Duty)—TRIPLE SEALED

1 7/16	SAF 22609 A	SAF 609	22309 K	SNW 109	2 3/4	9 5/8	2 3/4	1	7 7/8	7 3/8	...	5 1/8	4 1/4	(2) — 5/8	SR-11-9	ER 112	LER 17
1 11/16	SAF 22610 A	SAF 610	22310 K	SNW 110	3	10 5/8	2 3/4	1 1/8	9	8 3/8	2	5 13/16	4 5/8	(2) — 5/8	SR-0-10	ER 115	LER 20
1 15/16	SAF 22611 A	SAF 611	22311 K	SNW 111	3 1/4	11	3 1/8	1 1/8	9 1/2	8 3/4	2	6 3/8	4 7/8	(2) — 5/8	SR-13-11	ER 118	LER 24
2 3/16	SAF 22613 A	SAF 613	22313 K	SNW 113	3 3/4	13	3 3/8	1 1/8	11	9 5/8	2 1/8	6 11/16	5 3/8	(2) — 3/4	SR-16-13	ER 121	LER 32
2 7/16	SAF 22615 A	SAF 615	22315 K	SNW 115	4	13 3/4	3 3/8	1 1/8	11 5/8	10 3/8	2 1/8	7 13/16	6 1/4	(2) — 3/4	SR-18-15	ER 127	LER 37
2 11/16	SAF 22616 A	SAF 616	22316 K	SNW 116	4 1/4	14 1/4	3 3/8	1 1/8	12 5/8	10 5/8	2 1/8	8 1/4	6 1/2	(2) — 3/4	SR-19-16	ER 133	LER 44
2 15/16	SAF 22617 A	SAF 617	22317 K	SNW 117	4 1/2	15 1/4	4 3/8	1 1/8	13 1/4	11 5/8	2 1/8	8 3/4	6 3/4	(2) — 3/4	SR-20-17	ER 141	LER 59
3 3/16	SAF 22618 A	SAF 618	22318 K	SNW 118	4 3/4	15 3/4	4 3/8	1 1/8	13 1/2	12	2 1/4	9 1/4	6 7/8	(4) — 3/4	SR-21-18	ER 145	LER 69
3 7/16	SAF 22620 A	SAF 620	22320 K	SNW 120	5 1/4	16 1/4	4 3/4	1 1/8	14 1/2	13 1/4	2 3/4	10 1/4	7 3/8	(4) — 3/4	SR-24-20	ER 149	LER 75
3 11/16	SAF 22622 A	SAF 622	22322 K	SNW 122	6	18 3/8	5 3/8	1 1/8	16	14 3/8	3 3/4	11 1/16	8	(4) — 3/4	SR-0-22	ER 161	LER 93
4 3/16	SAF 22624 A	SAF 624	22324 K	SNW 124	6 5/16	21 1/4	6 3/4	2	18 1/4	17	3 3/4	12 11/16	8 3/8	(4) — 1	SR-0-24	ER 169	LER 113
4 7/16	SAF 22626 A	SAF 626	22326 K	SNW 126	6 11/16	22	6 3/4	2	19 1/4	17 3/8	3 3/4	13 1/16	8 3/4	(4) — 1	SR-0-26	ER 173	LER 117
4 11/16	SAF 22628 A	SAF 628	22328 K	SNW 128	7 1/8	24 3/4	6 3/4	2 1/8	21 3/8	19 3/8	4 1/4	14 1/16	9 3/8	(4) — 1	SR-0-28	ER 178	LER 122
5 3/16	SAF 22630 A	SAF 630	22330 K	SNW 130	7 1/2	26 3/4	7 3/8	2 1/8	23 3/8	20 7/8	4 5/8	15 1/16	9 3/4	(4) — 1	SR-36-30	ER 182	LER 125
5 7/16	SAF 22632 A	SAF 632	22332 K	SNW 132	7 7/8	28	7 3/8	2 3/8	24 3/8	21 3/8	4 1/2	16 3/16	10 5/8	(4) — 1 1/4	SR-38-32	ER 190	LER 211
5 15/16	SAF 22634 A	SAF 634	22334 K	SNW 134	8 1/4	29 3/8	8	2 3/8	25	22 3/8	5	17 1/16	11 1/8	(4) — 1 1/4	SR-40-34	ER 198	LER 215
6 3/16	SAF 22636 A	SAF 636	22336 K	SNW 136	8 7/8	31 1/4	8 3/4	2 1/2	26 3/4	24	5 1/4	18 1/16	11 3/8	(4) — 1 1/4	SR-0-36	ER 210	LER 220
6 7/16	SAF 22638 A	SAF 638	22338 K	SNW 138	9 1/8	32 3/4	8 3/4	2 1/2	27 3/8	24 3/8	5 1/4	19 1/16	11 7/8	(4) — 1 1/4	SR-44-38	ER 216	LER 224
7 3/16	SAF 22640 A	SAF 640	22340 K	SNW 140	9 3/8	34 1/4	9	2 3/4	29 1/2	26 3/4	5 1/2	20 3/16	12 3/8	(4) — 1 1/2	SR-0-40	ER 222	LER 228

†When specified, Pillow Blocks can be furnished for "English" shaft sizes which are 1/16" larger than standards shown above. This includes sizes to 3 1/2" inclusive.

*Specify Stabilizing Ring for "held" bearing. Only one bearing on each shaft should be held.

•Blocks with standard 2 bolt mounting can be furnished with 4 bolt holes at no additional cost. Specify by using prefix FSAF.

□Most sizes are furnished with improved internal "C" design.

**Pillow blocks with letter "L" on the foot after the pillow block number are equipped with LER rings. LER and ER rings are not interchangeable.

HOW TO ORDER

Example: When you order one SAF 22520 A you will receive a package containing one SAF 520 Pillow Block Housing, one No. 22220K Bearing and one No. SNW 20 Adapter. If your order specifies "held" bearing, you will receive, in addition, the necessary stabilizing rings. If you specify "one end closed," the required

end plug will be included.

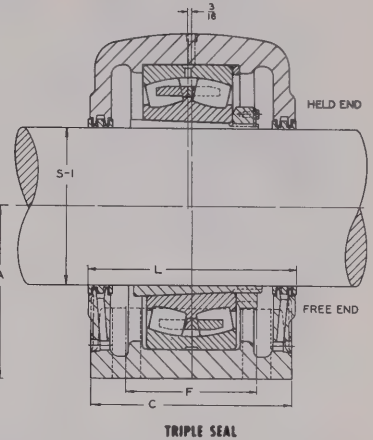
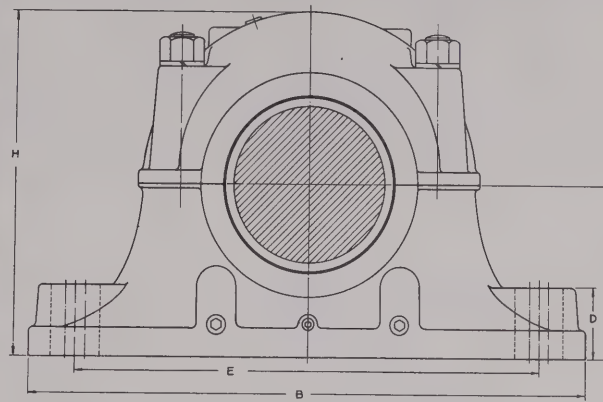
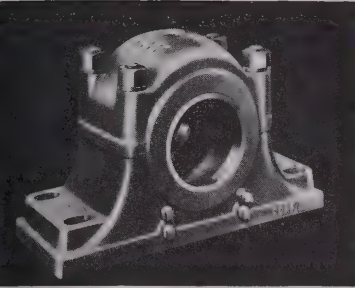
Available with Cast Steel housing. Specify by using prefix symbol "SAFS."

For blank base specify by using prefix symbol "SSAF."

SKF

SPHERICAL ROLLER BEARING PILLOW BLOCKS

SPLIT HOUSING—ADAPTER MOUNTING



TRIPLE SEAL

These units are equipped with Series 225A and 226A Adapter Type Spherical Roller Bearings shown on page 267.

Exceptionally sturdy construction for applications where abnormally heavy loads exist. Four heavy studs secure the cap to the base. Two halves accurately aligned by step-joint and dowel pins. Used extensively in oil field machinery, steel mills, rubber mills, crushers and other heavy-duty equipment.

ately aligned by step-joint and dowel pins. Used extensively in oil field machinery, steel mills, rubber mills, crushers and other heavy-duty equipment.

SERIES SDAF 225 A—TRIPLE SEALED

Shaft Diam. † S-1 in.	Complete Pillow Block Number	Pillow Block Housing Only	□ Bearing Used	Adapter Locknut & Lock-washer	A	B	C	D	E		F	H	L	Bolts (No. Req'd)	Stabilizing Ring* (1 required)	Triple Seal Ring (2 required)
					in.	in.	in.	in.	Max. in.	Min. in.	in.	in.	in.			
3 1/16	SDAF 22520 A	SDAF 520	22220 K	SNW 20	4 1/8	15 1/8	6	1 7/8	13 1/8	11 1/8	3 3/8	8 1/8	6 3/8	(4)—3/8	SR-20-17	ER 149
3 1/8	SDAF 22522 A	SDAF 522	22222 K	SNW 22	4 1/4	16 1/4	6 3/8	2 1/8	14 1/4	12 1/4	4	9 3/8	7 1/4	(4)—3/8	SR-22-19	ER 157
4 1/16	SDAF 22524 A	SDAF 524	22224 K	SNW 24	5 1/4	16 1/2	6 1/2	2 1/4	14 1/2	13 1/4	4 1/8	10 1/8	7 3/8	(4)—3/8	SR-24-20	ER 165
4 1/8	SDAF 22526 A	SDAF 526	22226 K	SNW 26	6	18 3/8	7 1/8	2 3/8	16	14 3/8	4 1/2	11 3/8	8	(4)—1	SR-26-0	ER 173
5 1/16	SDAF 22530 A	SDAF 530	22230 K	SNW 30	6 5/8	21 1/4	7 3/8	2 1/2	18 1/4	17	4 3/4	12 3/8	8 3/8	(4)—1 1/8	SR-30-0	ER 182
5 1/8	SDAF 22532 A	SDAF 532	22232 K	SNW 32	6 1/2	22	8 1/4	2 1/2	19 1/4	17 3/8	5	13 3/8	8 3/8	(4)—1 1/8	SR-32-0	ER 186
5 1/4	SDAF 22534 A	SDAF 534	22234 K	SNW 34	7 1/8	24 3/4	9	2 1/2	21 3/8	19 3/8	5 1/2	14 1/4	9 3/8	(4)—1 1/4	SR-34-0	ER 194
6 1/16	SDAF 22536 A	SDAF 536	22236 K	SNW 36	7 1/4	26 3/4	9 3/8	2 3/4	23 3/8	20 3/8	5 7/8	15 1/8	10	(4)—1 1/4	SR-36-30	ER 204
6 1/8	SDAF 22538 A	SDAF 538	22238 K	SNW 38	7 3/8	27 3/8	10	3	23 1/2	21 1/2	6 1/4	16	10 5/8	(4)—1 3/8	SR-38-32	ER 216
7 1/16	SDAF 22540 A	SDAF 540	22240 K	SNW 40	8 1/4	28 3/4	10 1/2	3 1/4	25	23	6 3/4	16 3/8	11 1/8	(4)—1 3/8	SR-40-34	ER 222
7 1/8	SDAF 22544 A	SDAF 544	22244 K	SNW 44	9 1/2	32	11 1/4	3 1/2	27 3/8	25 3/8	7 1/4	19	11 3/8	(4)—1 1/2	SR-44-38	ER 228

SERIES SDAF 226 A—TRIPLE SEALED

Shaft Diam. † S-1 in.	Complete Pillow Block Number	Pillow Block Housing Only	□ Bearing Used	Adapter Locknut & Lock-washer	A	B	C	D	E		F	H	L	Bolts (No. Req'd)	Stabilizing Ring* (1 required)	Triple Seal Ring (2 required)
					in.	in.	in.	in.	Max. in.	Min. in.	in.	in.	in.			
2 1/16	SDAF 22616 A	SDAF 616	22316 K	SNW 116	4 1/4	14 1/4	5 1/2	1 3/4	12 3/4	10 3/4	3 1/4	8 1/4	6 3/8	(4)—5/8	SR-19-16	ER 133
2 1/8	SDAF 22617 A	SDAF 617	22317 K	SNW 117	4 1/2	15 1/4	6	1 7/8	13 1/2	11 3/8	3 3/8	8 1/2	6 3/4	(4)—3/4	SR-20-17	ER 141
3 1/16	SDAF 22618 A	SDAF 618	22318 K	SNW 118	4 3/4	15 1/2	6 1/2	2	13 1/2	12	3 5/8	9 1/8	6 7/8	(4)—3/4	SR-21-18	ER 145
3 1/8	SDAF 22620 A	SDAF 620	22320 K	SNW 120	5 1/4	16 1/2	6 3/8	2 1/4	14 1/2	13 1/4	4 1/8	10 1/8	7 3/8	(4)—3/4	SR-24-20	ER 149
3 1/4	SDAF 22622 A	SDAF 622	22322 K	SNW 122	6	18 3/8	7 1/2	2 3/8	16	14 3/8	4 1/2	11 3/8	8	(4)—1	SR-0-22	ER 161
4 1/16	SDAF 22624 A	SDAF 624	22324 K	SNW 124	6 5/8	21 1/4	7 3/8	2 1/2	18 1/4	17	4 3/4	12 3/8	8 3/8	(4)—1 1/8	SR-0-24	ER 169
4 1/8	SDAF 22626 A	SDAF 626	22326 K	SNW 126	6 1/2	22	8 1/4	2 1/2	19 1/4	17 3/8	5	13 3/8	8 3/8	(4)—1 1/8	SR-0-26	ER 173
4 1/4	SDAF 22628 A	SDAF 628	22328 K	SNW 128	7 1/8	24 3/4	9	2 1/2	21 3/8	19 3/8	5 1/2	14 1/4	9 3/8	(4)—1 1/4	SR-0-28	ER 178
5 1/16	SDAF 22630 A	SDAF 630	22330 K	SNW 130	7 1/4	26 3/4	9 3/8	2 3/4	23 3/8	20 3/8	5 7/8	15 1/8	9 3/4	(4)—1 1/4	SR-36-30	ER 182
5 1/8	SDAF 22632 A	SDAF 632	22332 K	SNW 132	7 3/8	27 3/8	10	3	23 1/2	21 1/2	6 1/4	16	10 5/8	(4)—1 3/8	SR-38-32	ER 190
5 1/4	SDAF 22634 A	SDAF 634	22334 K	SNW 134	8 1/4	28 3/4	10 1/2	3 1/4	25	23	6 3/4	16 3/8	11 1/8	(4)—1 3/8	SR-40-34	ER 198
6 1/16	SDAF 22636 A	SDAF 636	22336 K	SNW 136	8 1/2	30 1/2	10 3/4	3 1/2	26 3/8	24 3/8	6 7/8	17 1/8	11 3/8	(4)—1 1/2	SR-0-36	ER 210
6 1/8	SDAF 22638 A	SDAF 638	22338 K	SNW 138	9 1/2	32	11 1/4	3 3/4	27 3/8	25 3/8	7 1/4	19	11 3/8	(4)—1 1/2	SR-44-38	ER 216
7 1/16	SDAF 22640 A	SDAF 640	22340 K	SNW 140	9 3/8	33 1/2	11 3/4	3 3/2	29 1/4	26 3/8	7 3/8	19 3/4	12 3/8	(4)—1 5/8	SR-0-40	ER 222

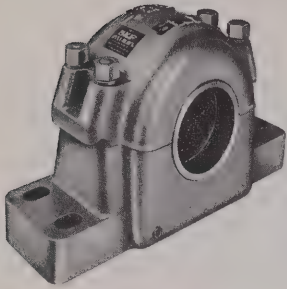
†Generally made to order—consult for availability of the sizes listed and any variations of these sizes.

*Specify Stabilizing Ring for "held" bearing. Only bearing on each shaft should be held.

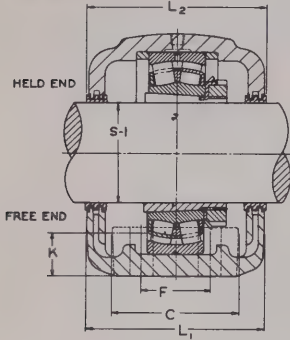
EXAMPLE, HOW TO ORDER: When your order 1-SDAF 22626 A you will receive a package containing 1-SDAF 626 Pillow Block Housing, 1 No. 22326 K Bearing and 1-SNW-126 Adapter. If your order specifies "held" bearing, you will receive, in addition, the necessary stabilizing rings. If you specify "one end closed," the required End Plug will be included. Available with cast steel housings. Specify by using prefix symbol "SDAFS".

□Most sizes are furnished with improved internal "C" design.

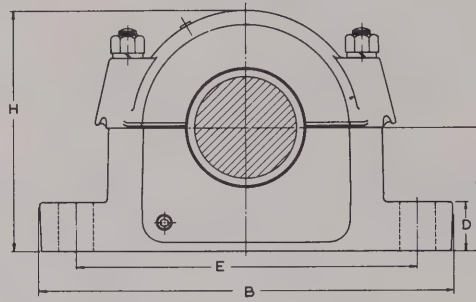
NEED HELP ON BEARINGS—CALL US

SKF SPHERICAL ROLLER BEARING PILLOW BLOCKS**SPLIT HOUSING—ADAPTER MOUNTING**

The new SKF "Dyna-Block," SAW Series has an improved, stronger, heavier sectioned casting. The housing cap is equipped with lifting grips for ease of handling. One housing can accommodate either a 222 or 232 Series bearing. The SAW Series is dimensionally interchangeable with the SAF Series, except for a nominal increase in the overall width in the new design. Increased oil capacity and larger drain holes under the seals for return of oil to the reservoir reduces variations in the oil level.



SAW 225



SAW 235

NOTE: Held bearing is offset $\frac{3}{16}$ " in relation to housing centerline. (X)

SERIES SAW 225—TRIPLE SEALED

Shaft Diam. S-1 in. †	Complete Pillow Block Number	Pillow Block Housing Only	Bearing Used	Adapter Locknut and Lockwasher		A	B	C	D	E		F	H	L ₁	L ₂	4 Bolts Used	Stabilizing Ring* (2 req'd)	Triple Seal Ring (2 req'd)
						in.	in.	in.	in.	Max. in.	Min. in.	in.	in.	in.	in.			
3 ⁷ / ₁₆	SAW 22520	SAW 520	22220 CK /W33	SNW 20	4 ¹ / ₂	15 ¹ / ₄	4 ³ / ₈	1 ³ / ₄	13 ¹ / ₈	11 ⁵ / ₈	2 ³ / ₈	8 ³ / ₄	7 ³ / ₈	7 ³ / ₈	3 ⁴ / ₈		36059-20	LER 102
3 ¹⁵ / ₁₆	SAW 22522	SAW 522	22222 CK /W33	SNW 22	4 ¹⁵ / ₁₆	16 ¹ / ₂	4 ³ / ₄	2	14 ¹ / ₂	12 ⁵ / ₈	2 ³ / ₄	9 ⁵ / ₈	7 ¹ / ₈	7 ¹ / ₈	3 ⁴ / ₈		36059-22	LER 109
4 ³ / ₁₆	SAW 22524	SAW 524	22224 CK /W33	SNW 24	5 ¹ / ₄	16 ¹ / ₂	4 ³ / ₄	2 ¹ / ₈	14 ¹ / ₂	13 ¹ / ₄	2 ³ / ₄	10 ¹ / ₄	7 ¹⁵ / ₁₆	8 ⁷ / ₈	3 ⁴ / ₈		36059-24	LER 113
4 ⁷ / ₁₆	SAW 22526	SAW 526	22226 CK /W33	SNW 26	6	18 ³ / ₈	5 ¹ / ₈	2 ³ / ₈	16	14 ³ / ₈	3 ¹ / ₄	11 ¹ / ₈	8 ¹ / ₄	8 ¹ / ₂	7 ⁸ / ₈		36059-26	LER 117
4 ¹⁵ / ₁₆	SAW 22528	SAW 528	22228 CK /W33	SNW 28	6	20 ¹ / ₈	5 ¹ / ₈	2 ³ / ₈	17 ¹ / ₈	16	3 ³ / ₈	11 ³ / ₈	8 ¹ / ₄	8 ⁷ / ₈	1		36059-28	LER 122
5 ¹ / ₁₆	SAW 22530	SAW 530	22230 CK /W33	SNW 30	6 ⁵ / ₁₆	21 ¹ / ₄	6 ¹ / ₄	2 ¹ / ₂	18 ¹ / ₄	17	3 ³ / ₄	12 ¹ / ₂	9 ³ / ₈	9 ³ / ₈	1		36059-30	LER 125
5 ¹ / ₁₆	SAW 22532	SAW 532	22232 CK /W33	SNW 32	6 ¹¹ / ₁₆	22	6 ¹ / ₄	2 ⁵ / ₈	19 ¹ / ₄	17 ³ / ₈	3 ³ / ₄	13 ⁵ / ₁₆	9 ³ / ₄	9 ³ / ₈	1		36059-32	LER 130
5 ¹⁵ / ₁₆	SAW 22534	SAW 534	22234 CK /W33	SNW 34	7 ¹ / ₁₆	24 ³ / ₄	6 ³ / ₄	2 ³ / ₄	21 ⁵ / ₈	19 ³ / ₈	4 ¹ / ₄	14 ³ / ₁₆	10 ¹ / ₈	10 ¹ / ₄	1		36059-34	LER 140
6 ¹ / ₁₆	SAW 22536	SAW 536	22236 CK /W33	SNW 36	7 ¹ / ₂	26 ³ / ₄	7 ¹ / ₈	3	23 ³ / ₈	20 ⁷ / ₈	4 ³ / ₈	14 ⁷ / ₈	10 ⁵ / ₈	10 ³ / ₈	1		36059-36	LER 148
6 ¹⁵ / ₁₆	SAW 22538	SAW 538	22238 CK /W33	SNW 38	7 ⁷ / ₈	28	7 ¹ / ₂	3 ¹ / ₈	24 ³ / ₈	21 ⁵ / ₈	4 ¹ / ₂	15 ¹ / ₁₆	10 ⁵ / ₈	10 ⁷ / ₈	1 ¹ / ₄		36059-38	LER 155
7 ¹ / ₁₆	SAW 22540	SAW 540	22240 CK /W33	SNW 40	8 ¹ / ₄	29 ¹ / ₂	8	3 ³ / ₈	25	22 ¹ / ₂	5	16 ¹ / ₂	11 ¹ / ₈	11 ³ / ₈	1 ¹ / ₄		36059-40	LER 159
7 ¹⁵ / ₁₆	SAW 22544	SAW 544	22244 CK /W33	SNW 44	9 ¹ / ₂	32 ³ / ₄	8 ³ / ₄	3 ³ / ₄	27 ⁷ / ₈	24 ³ / ₄	5 ¹ / ₄	18 ³ / ₈	12 ³ / ₈	12 ¹ / ₈	1 ¹ / ₂		36059-44	LER 167

SERIES SAW 235—TRIPLE SEALED

Shaft Diam. S-1 in. †	Complete Pillow Block Number	Pillow Block Housing Only	Bearing Used	Adapter Locknut and Lockwasher	A	B	C	D	E		F	H	L ₁	L ₂	4 Bolts Used	Stabilizing Ring* (1 req'd)	Triple Seal Ring (2 req'd)
					in.	in.	in.	in.	Max. in.	Min. in.	in.	in.	in.	in.			
3 ⁷ / ₁₆	SAW 23520	SAW 520	23220 CK /W33	SNW 120	4 ¹ / ₂	15 ¹ / ₄	4 ³ / ₈	1 ³ / ₄	13 ¹ / ₈	11 ⁵ / ₈	2 ³ / ₈	8 ³ / ₄	7 ³ / ₈	7 ³ / ₈	3 ⁴ / ₁₆	SR-20-17	LER 102
3 ¹⁵ / ₁₆	SAW 23522	SAW 522	23222 CK /W33	SNW 122	4 ¹⁵ / ₁₆	16 ¹ / ₂	4 ³ / ₄	2	14 ¹ / ₂	12 ⁵ / ₈	2 ³ / ₄	9 ⁵ / ₈	7 ¹ / ₈	7 ¹ / ₈	7 ³ / ₁₆	SR-22-19	LER 109
4 ³ / ₁₆	SAW 23524	SAW 524	23224 CK /W33	SNW 124	5 ¹ / ₄	16 ¹ / ₂	4 ³ / ₄	2 ¹ / ₈	14 ¹ / ₂	13 ¹ / ₄	2 ³ / ₄	10 ¹ / ₄	7 ¹ / ₈	8 ¹ / ₈	3 ⁴ / ₁₆	SR-24-20	LER 113
4 ⁷ / ₁₆	SAW 23526	SAW 526	23226 CK /W33	SNW 126	6	18 ³ / ₈	5 ¹ / ₈	2 ³ / ₈	16	14 ³ / ₈	3 ¹ / ₄	11 ¹ / ₈	8 ¹ / ₄	8 ¹ / ₂	1 ⁷ / ₈	SR-26-0	LER 117
4 ¹⁵ / ₁₆	SAW 23528	SAW 528	23228 CK /W33	SNW 128	6	20 ¹ / ₈	5 ¹ / ₈	2 ³ / ₈	17 ¹ / ₈	16	3 ³ / ₈	11 ³ / ₈	8 ¹ / ₄	8 ⁷ / ₈	1	SR-28-0	LER 122
5 ¹ / ₁₆	SAW 23530	SAW 530	23230 CK /W33	SNW 130	6 ⁵ / ₁₆	21 ¹ / ₄	6 ¹ / ₄	2 ¹ / ₂	18 ¹ / ₄	17	3 ³ / ₄	12 ¹ / ₂	9 ³ / ₈	9 ³ / ₈	1	SR-30-0	LER 125
5 ⁷ / ₁₆	SAW 23532	SAW 532	23232 CK /W33	SNW 132	6 ¹¹ / ₁₆	22	6 ¹ / ₄	2 ³ / ₈	19 ¹ / ₄	17 ³ / ₈	3 ³ / ₄	13 ⁵ / ₁₆	9 ³ / ₄	9 ⁷ / ₈	1	SR-32-0	LER 130
5 ¹⁵ / ₁₆	SAW 23534	SAW 534	23234 CK /W33	SNW 134	7 ¹ / ₁₆	24 ³ / ₄	6 ³ / ₄	2 ³ / ₄	21 ⁵ / ₈	19 ³ / ₈	4 ¹ / ₄	14 ³ / ₁₆	10 ¹ / ₈	10 ¹ / ₄	1	SR-34-0	LER 140
6 ¹ / ₁₆	SAW 23536	SAW 536	23236 CK /W33	SNW 136	7 ¹ / ₂	26 ³ / ₄	7 ¹ / ₈	3	23 ³ / ₈	20 ⁷ / ₈	4 ³ / ₈	14 ⁷ / ₈	10 ⁵ / ₈	10 ³ / ₈	1	SR-36-30	LER 148
6 ¹⁵ / ₁₆	SAW 23538	SAW 538	23238 CK /W33	SNW 138	7 ⁷ / ₈	28	7 ¹ / ₂	3 ¹ / ₈	24 ³ / ₈	21 ⁵ / ₈	4 ¹ / ₂	15 ¹ / ₁₆	10 ⁵ / ₈	10 ⁷ / ₈	1 ¹ / ₄	SR-38-32	LER 155
7 ¹ / ₁₆	SAW 23540	SAW 540	23240 CK /W33	SNW 140	8 ¹ / ₄	29 ¹ / ₂	8	3 ³ / ₈	25	22 ¹ / ₂	5	16 ¹ / ₂	11 ¹ / ₈	11 ³ / ₈	1 ¹ / ₄	SR-40-34	LER 159
7 ¹⁵ / ₁₆	SAW 23544	SAW 544	23244 CK /W33	SNW 144	9 ¹ / ₂	32 ³ / ₄	8 ³ / ₄	3 ³ / ₄	27 ⁷ / ₈	24 ³ / ₄	5 ¹ / ₄	18 ³ / ₈	12 ³ / ₈	12 ¹ / ₈	1 ¹ / ₂	SR-44-38	LER 167

Blank bases will be supplied on special order.

†Consult for availability of pillow blocks for shaft sizes other than those listed.

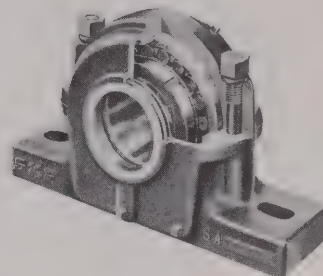
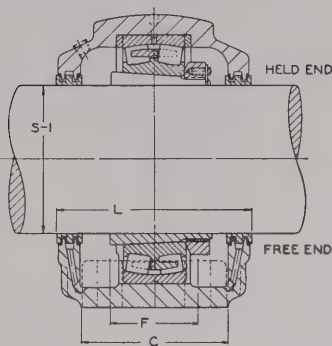
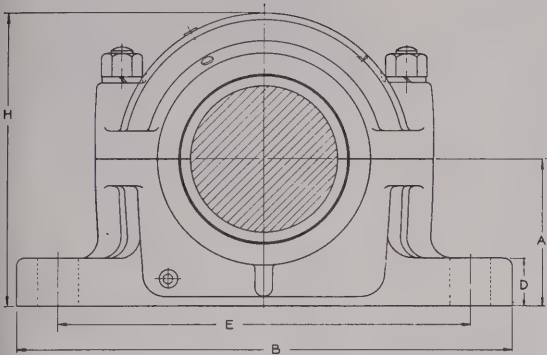
*Specify Stabilizing Ring for "held" bearing. Only one bearing on each shaft should be held.

HOW TO ORDER

Example: When you order one SAW 22526 or SAW 23526 you will receive one housing, one bearing and one adapter as listed above.

If your order specifies "held" bearing, you will receive, in addition, the necessary stabilizing ring(s). If you require a pillow block with one end closed, specify "Type Y."

SKF SPHERICAL ROLLER BEARING PILLOW BLOCKS ADAPTER MOUNTING—SPLIT HOUSING EXTRA LARGE SERIES

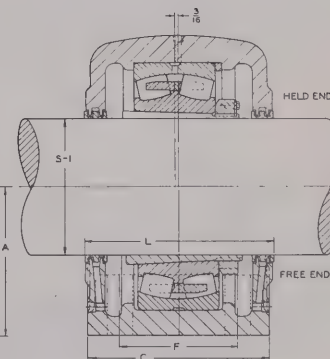
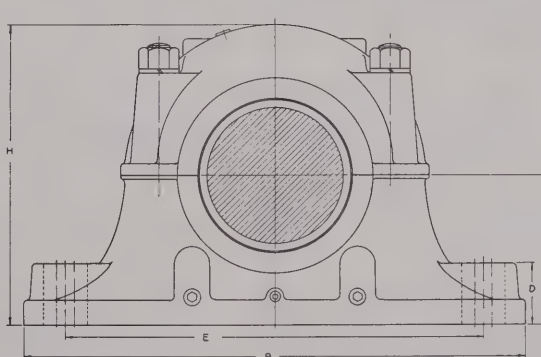
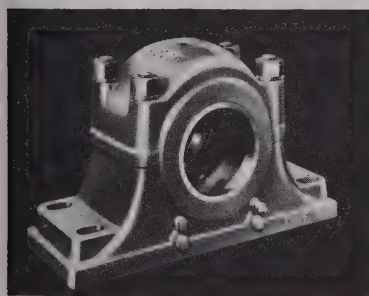


These pillow blocks are generally made to order. Consult for availability of the sizes shown and any variations of these sizes.

SERIES SAF 230A (Heavy Duty)—TRIPLE SEALED

Shaft Dia. S-1 In.	Complete Pillow Block Number	Bearing Used	Adapter Sleeve	Lock Nut	Lock Plate	A	B	C	D	E		F	H	L	Bolts (4 re- quired)	Triple Seal Ring (2 re- quired)	Stabil- izing Ring (2 re- quired)		
						In.	In.	In.	In.	Max. In.	Min. In.	In.	In.	In.					
						In.	In.	In.	In.	In.	In.	In.	In.	In.					
8 ⁷ / ₁₆	SAF 23048K	8 ⁷ / ₁₆ A	23048 K	S 3048	8 ⁷ / ₁₆	N 048	P 48	8 ¹ / ₄	29 ¹ / ₂	8	2 ³ / ₈	25	22 ¹ / ₂	5	17 ³ / ₁₆	11	1 ¹ / ₄	ER 415	A 8897
8 ¹ / ₂	SAF 23048K	8 ¹ / ₂ A	23048 K	S 3048	8 ¹ / ₂	N 048	P 48	8 ¹ / ₄	29 ¹ / ₂	8	2 ³ / ₈	25	22 ¹ / ₂	5	17 ³ / ₁₆	11	1 ¹ / ₄	ER 416	A 8897
8 ¹⁵ / ₁₆	SAF 23048K	8 ¹⁵ / ₁₆ A	23048 K	S 3048	8 ¹⁵ / ₁₆	N 048	P 48	8 ¹ / ₄	29 ¹ / ₂	8	2 ³ / ₈	25	22 ¹ / ₂	5	17 ³ / ₁₆	11	1 ¹ / ₄	ER 740	A 8897
9	SAF 23048K	9A	23048 K	S 3048	9	N 048	*P 48	8 ¹ / ₄	29 ¹ / ₂	8	2 ³ / ₈	25	22 ¹ / ₂	5	17 ³ / ₁₆	11	1 ¹ / ₄	ER 702	A 8897
9 ¹ / ₁₆	SAF 23052K	9 ¹ / ₁₆ A	23052 K	S 3052	9 ¹ / ₁₆	N 052	P 52	9 ¹ / ₂	32 ³ / ₄	8 ³ / ₄	2 ³ / ₄	27 ¹ / ₈	24 ³ / ₄	5 ¹ / ₄	19 ¹ / ₁₆	11 ³ / ₄	1 ¹ / ₂	ER 423	A 8898
9 ¹ / ₂	SAF 23052K	9 ¹ / ₂ A	23052 K	S 3052	9 ¹ / ₂	N 052	P 52	9 ¹ / ₂	32 ³ / ₄	8 ³ / ₄	2 ³ / ₄	27 ¹ / ₈	24 ³ / ₄	5 ¹ / ₄	19 ¹ / ₁₆	11 ³ / ₄	1 ¹ / ₂	ER 424	A 8898
9 ¹⁵ / ₁₆	SAF 23056K	9 ¹⁵ / ₁₆ A	23056 K	S 3056	9 ¹⁵ / ₁₆	N 056	P 56	9 ⁷ / ₈	34 ¹ / ₄	9	2 ³ / ₄	29 ¹ / ₂	26 ¹ / ₄	5 ¹ / ₂	20 ³ / ₁₆	12 ¹ / ₄	1 ¹ / ₂	ER 751	A 8819
10	SAF 23056K	10A	23056 K	S 3056	10	N 056	P 56	9 ⁷ / ₈	34 ¹ / ₄	9	2 ³ / ₄	29 ¹ / ₂	26 ¹ / ₄	5 ¹ / ₂	20 ³ / ₁₆	12 ¹ / ₄	1 ¹ / ₂	ER 705	A 8819
10 ¹ / ₁₆	SAF 23056K	10 ¹ / ₁₆ A	23056 K	S 3056	10 ¹ / ₁₆	N 056	P 56	9 ⁷ / ₈	34 ¹ / ₄	9	2 ³ / ₄	29 ¹ / ₂	26 ¹ / ₄	5 ¹ / ₂	20 ³ / ₁₆	12 ¹ / ₄	1 ¹ / ₂	ER 745	A 8819
10 ¹ / ₂	SAF 23056K	10 ¹ / ₂ A	23056 K	S 3056	10 ¹ / ₂	N 056	*P 56	9 ⁷ / ₈	34 ¹ / ₄	9	2 ³ / ₄	29 ¹ / ₂	26 ¹ / ₄	5 ¹ / ₂	20 ³ / ₁₆	12 ¹ / ₄	1 ¹ / ₂	ER 710	A 8819

*Lockplates must be fitted at assembly.



SERIES SDAF 230 A—TRIPLE SEALED

Shaft Dia. S-1 In.	Complete Pillow Block Number	Bearing Used	Adapter Sleeve	Lock Nut	Lock Plate	A	B	C	D	E		F	H	L	Bolts (4 re- quired)	Triple Seal Ring (2 re- quired)	Stabil- izing Ring (1 re- quired)
						In.	In.	In.	In.	Max. In.	Min. In.	In.	In.	In.			
10 ¹⁵ / ₁₆	SDAF 23060K 10 ¹⁵ / ₁₆ A	23060 K	S 3060 10 ¹⁵ / ₁₆	N 060	P 60	12	38 ³ / ₄	14 ³ / ₄	3 ³ / ₈	33 ¹ / ₂	32 ³ / ₄	9	23 ⁷ / ₁₆	14 ¹ / ₂	1 ⁵ / ₈	ER 858	A 8967
11	SDAF 23060K 11A	23060 K	S 3060 11	N 060	P 60	12	38 ³ / ₄	14 ³ / ₄	3 ³ / ₈	33 ¹ / ₂	32 ³ / ₄	9	23 ⁷ / ₁₆	14 ¹ / ₂	1 ⁵ / ₈	ER 825	A 8967
11 ¹ / ₁₆	SDAF 23064K 11 ¹ / ₁₆ A	23064 K	S 3064 11 ⁷ / ₁₆	N 064	P 64	12	38 ³ / ₄	14 ³ / ₄	3 ³ / ₈	33 ¹ / ₂	32 ³ / ₄	9	23 ⁷ / ₁₆	15 ¹ / ₂	1 ⁵ / ₈	ER 861	A 8968
11 ¹ / ₂	SDAF 23064K 11 ¹ / ₂ A	23064 K	S 3064 11 ¹ / ₂	N 064	P 64	12	38 ³ / ₄	14 ³ / ₄	3 ³ / ₈	33 ¹ / ₂	32 ³ / ₄	9	23 ⁷ / ₁₆	15 ¹ / ₂	1 ⁵ / ₈	ER 832	A 8968
11 ¹⁵ / ₁₆	SDAF 23064K 11 ¹⁵ / ₁₆ A	23064 K	S 3064 11 ¹⁵ / ₁₆	N 064	P 64	12	38 ³ / ₄	14 ³ / ₄	3 ³ / ₈	33 ¹ / ₂	32 ³ / ₄	9	23 ⁷ / ₁₆	15 ¹ / ₂	1 ⁵ / ₈	ER 859	A 8968
12	SDAF 23064K 12A	23064 K	S 3064 12	N 064	P 64	12	38 ³ / ₄	14 ³ / ₄	3 ³ / ₈	33 ¹ / ₂	32 ³ / ₄	9	23 ⁷ / ₁₆	15 ¹ / ₂	1 ⁵ / ₈	ER 818	A 8968
12 ¹ / ₁₆	SDAF 23068K 12 ¹ / ₁₆ A	23068 K	S 3068 12 ⁷ / ₁₆	N 068	P 68	12	39	15 ¹ / ₄	4 ¹ / ₈	33 ¹ / ₂	32	10	24	15 ³ / ₄	1 ⁷ / ₈	ER 865	A 8969
12 ¹ / ₂	SDAF 23068K 12 ¹ / ₂ A	23068 K	S 3068 12 ¹ / ₂	N 068	P 68	12	39	15 ¹ / ₄	4 ¹ / ₈	33 ¹ / ₂	32	10	24	15 ³ / ₄	1 ⁷ / ₈	ER 866	A 8969
12 ¹⁵ / ₁₆	SDAF 23072K 12 ¹⁵ / ₁₆ A	23072 K	S 3072 12 ¹⁵ / ₁₆	N 072	P 72	12 ¹⁵ / ₁₆	41 ³ / ₄	15 ³ / ₄	4 ¹ / ₂	36 ¹ / ₂	35	10 ¹ / ₂	25 ³ / ₄	16 ¹ / ₄	1 ⁷ / ₈	ER 869	A 8970
13	SDAF 23072K 13A	23072 K	S 3072 13	N 072	P 72	12 ¹⁵ / ₁₆	41 ³ / ₄	15 ³ / ₄	4 ¹ / ₂	36 ¹ / ₂	35	10 ¹ / ₂	25 ³ / ₄	16 ¹ / ₄	1 ⁷ / ₈	ER 846	A 8970
13 ¹ / ₁₆	SDAF 23072K 13 ¹ / ₁₆ A	23072 K	S 3072 13 ⁷ / ₁₆	N 072	P 72	12 ¹⁵ / ₁₆	41 ³ / ₄	15 ³ / ₄	4 ¹ / ₂	36 ¹ / ₂	35	10 ¹ / ₂	25 ³ / ₄	16 ¹ / ₄	1 ⁷ / ₈	ER 872	A 8970
13 ¹ / ₂	SDAF 23072K 13 ¹ / ₂ A	23072 K	S 3072 13 ¹ / ₂	N 072	P 72	12 ¹⁵ / ₁₆	41 ³ / ₄	15 ³ / ₄	4 ¹ / ₂	36 ¹ / ₂	35	10 ¹ / ₂	25 ³ / ₄	16 ¹ / ₄	1 ⁷ / ₈	ER 823	A 8970
13 ¹⁵ / ₁₆	SDAF 23076K 13 ¹⁵ / ₁₆ A	23076 K	S 3076 13 ¹⁵ / ₁₆	N 076	P 76	12 ¹⁵ / ₁₆	41 ³ / ₄	15 ³ / ₄	4 ¹ / ₂	36 ¹ / ₂	35	10 ¹ / ₂	25 ³ / ₄	16 ¹ / ₄	1 ⁷ / ₈	ER 875	A 8971
14	SDAF 23076K 14A	23076 K	S 3076 14	N 076	P 76	12 ¹⁵ / ₁₆	41 ³ / ₄	15 ³ / ₄	4 ¹ / ₂	36 ¹ / ₂	35	10 ¹ / ₂	25 ³ / ₄	16 ¹ / ₄	1 ⁷ / ₈	ER 876	A 8971

NEED HELP ON BEARINGS—CALL US

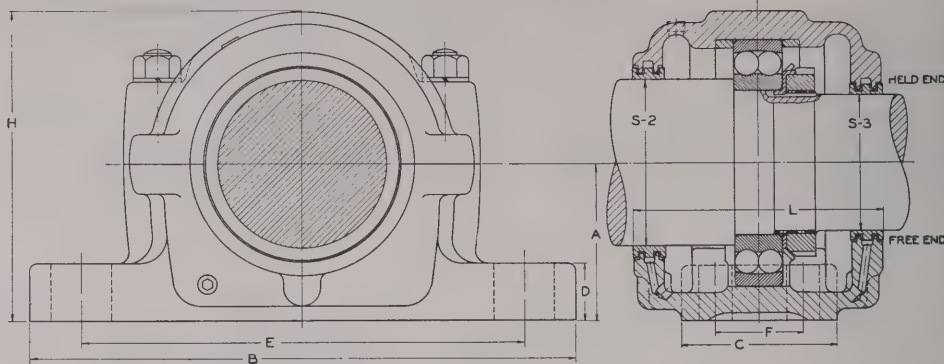
SKF BALL BEARING PILLOW BLOCKS

CYLINDRICAL BORE MOUNTING

SPLIT HOUSING—TRIPLE SEALED

IMPORTANT

Pillow blocks with letter "L" on the foot after the pillow block number are equipped with LER seal rings. LER and ER rings are *not* interchangeable.



SERIES SAF 13

Shaft Diam.†		Complete Pillow Block Number	Pillow Block Housing Only	Bearing Used	A	B	C	D	E		F	H	L	Bolts (No. req'd)	Stabilizing Ring* (2 req'd)	Triple Seal Rings			
S-2 in.	S-3 in.				in.	in.	in.	in.	Max. in.	Min. in.	in.	in.	in.			S-2 Shaft (1 required)		S-3 Shaft (1 required)	
1 15/16	1 1/16	SAF 1308	SAF 308	1308	2 1/2	8 1/4	2 3/8	1	7	6 1/2	...	4 13/16	4	(2)—1/2	SR-1608	ER 118	LER 24	ER 238	LER 17
2 1/8	1 11/16	SAF 1309	SAF 309	1309	2 3/4	9 5/8	2 3/4	1	7 7/8	7 3/8	...	5 5/16	4 1/4	(2)—5/8	SR-1609	ER 253	LER 28	ER 243	LER 20
2 3/8	1 7/8	SAF 1310	SAF 310	1310	3	10 5/8	2 3/4	1 1/8	9	7 3/4	...	5 15/16	4 5/8	(2)—5/8	SR-1610	ER 256	LER 35	ER 248	LER 23
2 7/8	2 1/16	SAF 1311	SAF 311	1311	3 1/4	11	3 3/8	1 5/16	9 1/2	8 5/8	...	6 3/16	5	(2)—5/8	SR-1611	ER 261	LER 40	ER 251	LER 27
2 7/8	2 1/4	SAF 1312	SAF 312	1312	3 1/4	11 1/4	3 3/8	1 5/16	9 5/8	8 5/8	...	6 3/8	5 1/4	(2)—5/8	SR-1612	ER 271	LER 47	ER 122	LER 33
3 1/16	2 7/16	SAF 1313	SAF 313	1313	3 1/2	13	3 1/2	1 1/4	11	9 5/8	...	6 15/16	5 3/8	(2)—3/4	SR-1613	ER 273	LER 55	ER 259	LER 37
3 1/4	2 5/8	SAF 1314	SAF 314	1314	3 3/4	13	3 1/2	1 1/4	11	9 7/8	...	7 3/8	5 3/8	(2)—3/4	SR-1614	ER 282	LER 64	ER 262	LER 43
3 1/4	2 11/16	SAF 1315	SAF 315	1315	4	13 3/4	3 3/8	1 5/16	11 5/8	10 5/8	...	7 15/16	6 1/4	(2)—3/4	SR-1615	ER 295	LER 79	ER 268	LER 46
3 3/8	3	SAF 1316	SAF 316	1316	4 1/4	14 1/4	3 3/8	1 5/16	12 5/8	10 5/8	...	8 1/4	6 1/2	(2)—3/4	SR-1616	ER 305	LER 84	ER 142	LER 60
3 15/16	3 3/16	SAF 1317	SAF 317	1317	4 1/2	15 1/4	4 3/8	1 1/2	13 3/8	11 5/8	...	8 7/8	6 3/4	(2)—7/8	SR-1617	ER 157	LER 93	ER 280	LER 69
4 1/8	3 3/8	SAF 1318	SAF 318	1318	4 3/4	15 1/2	4 3/8	1 5/8	13 1/2	12	2 1/4	9 1/4	6 7/8	(4)—3/4	SR-1618	ER 319	LER 96	ER 290	LER 72
4 1/2	3 15/16	SAF 1320	SAF 320	1320	5 1/4	16 1/2	4 3/4	1 3/4	14 1/2	13 1/4	2 3/4	10 1/4	7 3/8	(4)—3/4	SR-1620	ER 333	LER 205	ER 308	LER 87
4 7/8	4 3/16	SAF 1322	SAF 322	1322	6	18 3/8	5 3/8	1 7/8	16	14 3/8	3 1/4	11 15/16	8	(4)—7/8	SR-1622	ER 177	LER 121	ER 325	LER 113

*Specify Stabilizing Ring for "held" bearing. Only one bearing on each shaft should be held.

EXAMPLE, HOW TO ORDER: When you order 1-SAF 1311 you will receive a package containing 1-SAF 311 Pillow Block Housing, 1 No. 1311 Bearing, 1 No. N 11 Locknut and 1 No. W 11 Lockwasher. If your order specifies "held" bearing, you will receive, in addition, the necessary stabilizing rings. If you specify "one end closed," the required end plug will be included.

†S-2 and S-3 dimensions must be in accordance with "American Standard Shafting Tolerances" to obtain proper triple seal ring clearance.

SKF SPLIT HOUSING PILLOW BLOCKS

BEARING MOUNTING AND SEALING FEATURES

All SKF Split Housing Pillow Blocks are now produced in the Triple Seal design illustrated below. Triple seal rings provide effective sealing for applications where surrounding conditions are unusually dirty.

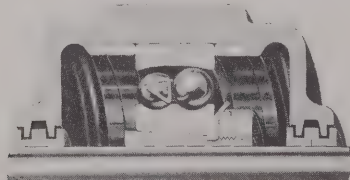
Seal retains oil—effectively prevents its leakage when oil lubrication is required.

The seal rings slide over the shaft and are positioned to the housing labyrinths during the installation procedure when the bearing and shaft assembly is lowered

into the lower half of the housing.

SKF Ball or Roller Bearing Split Housing Pillow Blocks are furnished with either adapter type or "press on shaft" type bearing mountings.

Triple seals are the same size for either opening in the adapter type blocks but "press on shaft" mounted housings require two different sizes of sealing rings per housing due to the shaft shoulder and resultant step-down on the shaft dimension.



ADAPTER MOUNTING

The bore of the ball or roller bearing is tapered to match the adapter sleeve. The locknut drives the bearing up on the adapter to obtain a positive tight fit between bearing and shaft.

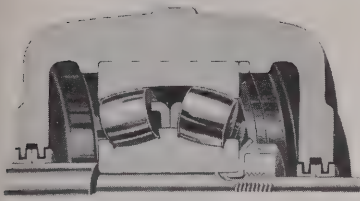
Note the stabilizing rings mounted between the housing shoulder and bearing outer ring, which fix the location of the "held" bearing in the housing. Stabilizing rings are omitted from the "floating" type pillow blocks. Only one bearing on any single shaft should be held. Stabilizing rings are supplied only when order specifies "held" bearing.



DIRECT MOUNT

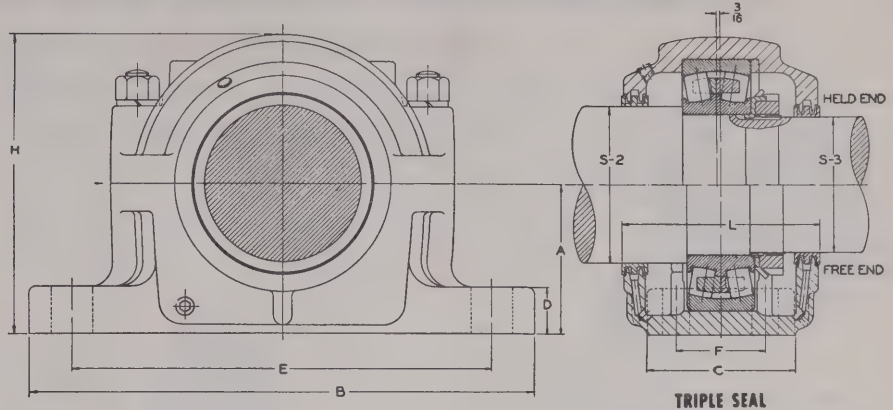
Conventional cylindrical bore ball or roller bearings are pressed directly on shaft. Locknut and lock washer secures the bearing and safeguards against slippage of the inner ring on the shaft.

SKF SPHERICAL ROLLER BEARING PILLOW BLOCKS CYLINDRICAL BORE MOUNTING—SPLIT HOUSING



Shafts must be shouldered for press fit bearing mount.

Pillow blocks with letter "L" on the foot after the pillow block number are equipped with LER rings. LER and ER rings are *not* interchangeable.



SERIES SAF 222 (HEAVY DUTY) TRIPLE SEALED

Shaft Diam.†		Complete Pillow Block Number	Pillow Block Housing Only	□ Bearing Used	A	B	C	D	E		F	H	L	Bolts (No. Req'd) in.	Stabilizing Rings* (1 required)	Triple Seal Rings			
S-2 in.	S-3 in.				in.	in.	in.	in.	Max. in.	Min. in.	in.	in.	in.			S-2 Shaft (1 required)	S-3 Shaft (1 required)		
3 5/8	3	•SAF22216	SAF216	22216	3 1/2	13	3 1/2	1 1/4	11	9 5/8	2 1/8	6 15/16	5 3/8	(2) — 3/4	SR-16-13	ER 303	LER 82	ER 138	LER 54
3 15/16	3 5/16	•SAF22217	SAF217	22217	3 3/4	13	3 1/2	1 1/4	11	9 7/8	2 1/8	7 3/8	5 3/8	(2) — 3/4	SR-17-14	ER 310	LER 89	ER 277	LER 63
4 1/8	3 3/8	•SAF22218	SAF218	22218	4	13 3/4	3 3/8	1 5/16	11 5/8	10 3/8	2 1/8	7 15/16	6 1/4	(2) — 3/4	SR-18-15	ER 315	LER 96	ER 287	LER 72
4 1/2	3 13/16	•SAF22220	SAF220	22220	4 1/2	15 1/4	4 3/8	1 1/2	13 1/8	11 5/8	2 3/8	8 7/8	6 3/4	(2) — 3/4	SR-20-17	ER 333	LER 205	ER 308	LER 87
4 7/8	4 1/8	SAF22222	SAF222	22222	4 7/8	16 1/2	4 3/4	1 5/8	14 1/2	12 5/8	2 3/4	9 11/16	7 1/4	(4) — 3/4	SR-22-19	ER 345	LER 121	ER 322	LER 113
5 5/16	4 9/16	SAF22224	SAF224	22224	5 1/4	16 1/2	4 3/4	1 3/4	14 1/2	13 1/4	2 3/4	10 1/4	7 3/8	(4) — 3/4	SR-24-20	ER 352	LER 127	ER 334	LER 119
5 7/8	4 15/16	SAF22226	SAF226	22226	6	18 3/8	5 1/8	1 7/8	16	14 5/8	3 1/4	11 3/8	8	(4) — 7/8	SR-26-0	ER 363	LER 136	ER 343	LER 122
6 1/4	5 5/16	SAF22228	SAF228	22228	6	20 1/8	5 7/8	1 15/16	17 1/8	16	3 3/8	12	7 5/8	(4) — 1	SR-28-0	ER 373	LER 144	ER 350	LER 127
6 5/8	5 3/4	SAF22230	SAF230	22230	6 5/16	21 1/4	6 1/4	2	18 1/4	17	3 3/4	12 11/16	8 3/8	(4) — 1	SR-30-0	ER 378	LER 151	ER 359	LER 134
7	6 1/16	SAF22232	SAF232	22232	6 11/16	22	6 3/4	2	19 1/4	17 3/8	3 3/4	13 3/16	8 3/4	(4) — 1	SR-32-0	ER 389	LER 156	ER 367	LER 142
7 7/16	6 7/16	SAF22234	SAF234	22234	7 1/16	24 3/4	6 3/4	2 1/8	21 3/8	19 3/8	4 1/4	14 9/16	9 5/8	(4) — 1	SR-34-0	ER 397	LER 161	ER 204	LER 148
7 15/16	6 7/8	SAF22236	SAF236	22236	7 1/8	26 3/4	7 1/8	2 1/8	23 3/8	20 7/8	4 5/8	15 15/16	10	(4) — 1	SR-36-30	ER 405	LER 165	ER 383	LER 154
8 3/8	7 3/4	SAF22238	SAF238	22238	7 7/8	28	7 3/4	2 3/8	24 3/8	21 5/8	4 5/8	16 3/8	10 5/8	(4) — 1 1/4	SR-38-32	ER 414	LER 240	ER 223	LER 229
8 3/4	7 5/8	SAF22240	SAF240	22240	8 1/4	29 1/8	8	2 3/4	25	22 1/2	5	17 1/16	11 1/8	(4) — 1 1/4	SR-40-34	ER 419	LER 244	ER 404	LER 233
9 1/16	8 5/16	SAF22244	SAF244	22244	9 1/2	32 3/4	8 3/4	2 3/4	27 3/8	24 3/4	5 1/4	19 1/16	11 1/8	(4) — 1 1/2	SR-44-38	ER 425	LER 248	ER 411	LER 239

Note: The above series is available in cast steel. Designate as "SAFS".

SERIES SAF 223 (EXTRA HEAVY DUTY) TRIPLE SEALED

Shaft Diam.†		Complete Pillow Block Number	Pillow Block Housing Only	□ Bearing Used	A	B	C	D	E		F	H	L	Bolts (No. Req'd) in.	Stabilizing Rings* (1 required)	Triple Seal Rings			
S-2 in.	S-3 in.				in.	in.	in.	in.	Max. in.	Min. in.	in.	in.	in.			S-2 Shaft (1 required)	S-3 Shaft (1 required)		
1 15/16	1 7/16	SAF22308	SAF308	22308	2 1/2	8 1/4	2 3/8	1	7	6 1/2	...	4 15/16	4	(2) — 1/2	SR-10-8	ER 118	LER 24	ER 238	LER 17
2 1/8	1 11/16	SAF22309	SAF309	22309	2 3/4	9 5/8	2 3/4	1	7 7/8	7 3/8	...	5 5/16	4 1/4	(2) — 5/8	SR-11-9	ER 253	LER 28	ER 243	LER 20
2 3/8	1 7/8	SAF22310	SAF310	22310	3	10 5/8	2 3/4	1 1/8	9	7 7/4	...	5 13/16	4 5/8	(2) — 5/8	SR-0-10	ER 256	LER 35	ER 248	LER 23
2 5/8	2 1/8	•SAF22311	SAF311	22311	3 1/4	11	3 1/8	1 1/8	9 1/2	8 1/8	2	6 3/8	5	(2) — 5/8	SR-13-11	ER 261	LER 40	ER 251	LER 27
2 7/8	2 3/4	•SAF22312	SAF312	22312	3 1/2	11 1/4	3 1/8	1 1/8	9 5/8	8 5/8	1 7/8	6 3/8	5 1/4	(2) — 5/8	SR-15-12	ER 271	LER 47	ER 122	LER 33
3 1/16	2 7/16	•SAF22313	SAF313	22313	3 5/8	13	3 1/2	1 1/4	11	9 5/8	2 1/8	6 15/16	5 3/8	(2) — 3/4	SR-16-13	ER 273	LER 55	ER 259	LER 37
3 1/4	2 5/8	•SAF22314	SAF314	22314	3 3/4	13	3 1/2	1 1/4	11	9 7/8	2 1/8	7 3/8	5 3/8	(2) — 3/4	SR-17-14	ER 282	LER 64	ER 262	LER 43
3 1/2	2 11/16	•SAF22315	SAF315	22315	4	13 3/4	3 1/2	1 5/16	11 1/8	10 3/8	2 1/8	7 13/16	6 1/4	(2) — 3/4	SR-18-15	ER 295	LER 79	ER 268	LER 46
3 5/8	3	•SAF22316	SAF316	22316	4 1/4	14 1/4	3 1/2	1 5/16	12 3/8	10 5/8	2 1/8	8 1/4	6 1/2	(2) — 3/4	SR-19-16	ER 305	LER 84	ER 142	LER 60
3 15/16	3 3/16	•SAF22317	SAF317	22317	4 1/2	15 1/4	4 3/8	1 1/2	13 1/8	11 5/8	2 3/8	8 7/8	6 3/4	(2) — 7/8	SR-20-17	ER 157	LER 93	ER 280	LER 69
4 1/8	3 3/8	SAF22318	SAF318	22318	4 3/4	15 1/2	4 3/8	1 5/8	13 1/2	12	2 1/4	9 1/4	6 7/8	(4) — 3/4	SR-21-18	ER 319	LER 96	ER 290	LER 72
4 1/2	3 13/16	SAF22320	SAF320	22320	5 1/4	16 1/2	4 3/4	1 3/4	14 1/2	13 1/4	2 3/4	10 1/4	7 3/8	(4) — 3/4	SR-24-20	ER 333	LER 205	ER 308	LER 87
4 7/8	4 3/16	SAF22322	SAF322	22322	6	18 3/8	5 1/8	1 7/8	16	14 5/8	3 1/4	11 3/8	8	(4) — 7/8	SR-0-22	ER 177	LER 121	ER 325	LER 113
5 1/8	4 9/16	SAF22324	SAF324	22324	6 5/16	21 1/4	6 1/4	2	18 1/4	17	3 3/4	12 11/16	8 3/8	(4) — 1	SR-0-24	ER 184	LER 127	ER 337	LER 119
5 1/2	4 15/16	SAF22326	SAF326	22326	6 11/16	22	6 1/4	2	19 1/4	17 3/8	3 3/4	13 3/16	8 3/4	(4) — 1	SR-0-26	ER 363	LER 136	ER 343	LER 122
6 1/4	5 5/16	SAF22328	SAF328	22328	7 1/16	24 3/4	6 3/4	2 1/8	21 3/8	19 3/8	4 1/4	14 9/16	9 5/8	(4) — 1	SR-0-28	ER 373	LER 144	ER 350	LER 127
6 5/8	5 3/4	SAF22330	SAF330	22330	7 1/8	26 3/4	7 1/8	2 1/8	23 3/8	20 7/8	4 5/8	15 15/16	9 3/4	(4) — 1	SR-36-30	ER 378	LER 151	ER 359	LER 134
7	6 1/16	SAF22332	SAF332	22332	7 7/8	28	7 1/2	2 3/8	24 3/8	21 5/8	4 1/2	16 1/16	10 5/8	(4) — 1 1/4	SR-38-32	ER 394	LER 225	ER 370	LER 217
7 7/16	6 7/16	SAF22334	SAF334	22334	8 1/4	29 1/2	8	2 3/8	25	22 1/2	5	17 1/16	11 1/8	(4) — 1 1/4	SR-40-34	ER 401	LER 230	ER 210	LER 220

*Specify Stabilizing Ring for "held" bearing. Only one bearing on each shaft should be held.

EXAMPLE: HOW TO ORDER: When you order 1-SAF 22320 you will receive a package containing 1-SAF 320 Pillow Block Housing, 1 No. 22320 Bearing, 1 No. AN 20 Locknut and 1 No. W 20 Lockwasher. If your order specifies "held" bearing, you will receive, in addition, the necessary stabilizing rings. If you specify "one end closed," the required end plug will be included.

†S-2 and S-3 dimensions must be in accordance with "American Standard Shafting Tolerances" to obtain proper triple seal ring clearance.

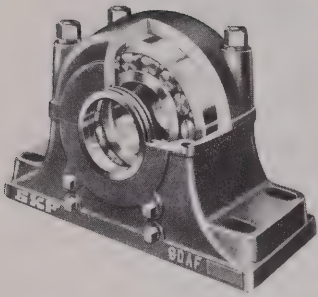
*Specify "FSAF" when pillow blocks with 4 bolt base are required.

□ Most sizes are now furnished with improved internal "C" design bearings.

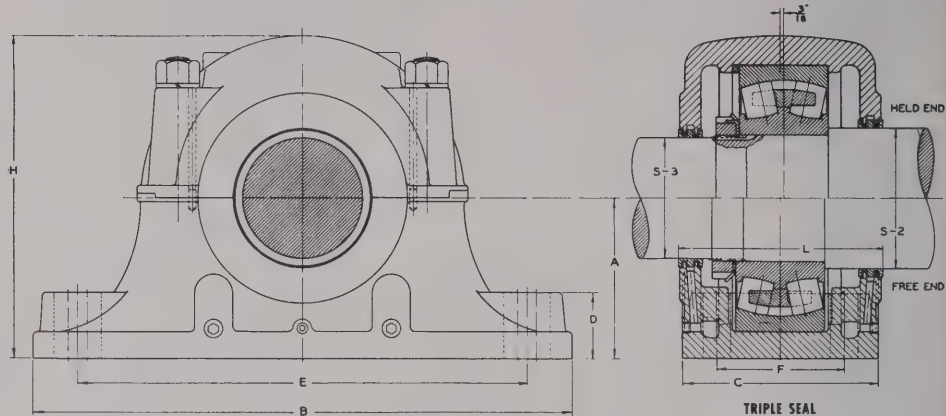
NEED HELP ON BEARINGS—CALL US

SKF**SPHERICAL ROLLER BEARING PILLOW BLOCKS**

CYLINDRICAL BORE MOUNTING
SPLIT HOUSING—TRIPLE SEALED
SDAF TYPE—HEAVY DUTY



Exceptionally sturdy construction for applications where abnormally heavy loads exist. Four heavy studs secure the cap to the base. Improved lubrication method channels lubricant through housing directly to center of bearing. These pillow blocks made in cast steel are designated "SDAFS."

**SERIES SDAF 222**

Shaft Diam.†		Complete Pillow Block Number	Pillow Block Housing Only	□ Bearing Used	Lock-nut	Lock-washer	A	B	C	D	E		F	H	L	Bolts (No. Req'd)	Stabilizing Rings* (1 required)	Triple Seal Rings	
S-2 in.	S-3 in.						in.	in.	in.	in.	Max. in.	Min. in.	in.	in.	in.			S-2 Shaft (1 required)	S-3 Shaft (1 required)
4 1/8	3 13/16	SDAF22220	SDAF220	22220	AN20	W20	4 1/8	15 1/4	6	1 7/8	13 1/8	11 5/8	3 3/8	8 15/16	6 3/4	(4) — 3/4	SR-20-17	ER333	ER308
4 7/8	4 3/16	SDAF22222	SDAF222	22222	AN22	W22	4 7/8	16 1/2	6 3/4	2 1/8	14 1/2	12 5/8	4	9 7/8	7 1/4	(4) — 7/8	SR-22-19	ER345	ER322
5 1/8	4 9/16	SDAF22224	SDAF224	22224	AN24	W24	5 1/8	16 1/2	6 3/4	2 1/4	14 1/2	13 1/4	4 1/8	10 1/2	7 3/8	(4) — 7/8	SR-24-20	ER352	ER334
5 7/8	4 15/16	SDAF22226	SDAF226	22226	AN26	W26	5 7/8	18 3/8	7 1/2	2 3/8	16	14 5/8	4 1/2	11 1/8	8	(4) — 1	SR-26-0	ER363	ER343
6 3/8	5 3/4	SDAF22230	SDAF230	22230	AN30	W30	6 3/8	21 1/4	7 7/8	2 3/2	18 3/4	17	4 3/4	12 3/4	8 3/8	(4) — 1 1/8	SR-30-0	ER378	ER359
7	6 1/16	SDAF22232	SDAF232	22232	AN32	W32	6 1/16	22	8 3/4	2 1/2	19 1/4	17 3/8	5	13 7/16	8 3/4	(4) — 1 1/8	SR-32-0	ER389	ER367
7 1/16	6 7/16	SDAF22234	SDAF234	22234	AN34	W34	7 1/16	24 3/4	9	2 1/2	21 5/8	19 3/8	5 1/2	14 1/4	9 5/8	(4) — 1 1/4	SR-34-0	ER397	ER204
7 13/16	6 7/8	SDAF22236	SDAF236	22236	AN36	W36	7 13/16	26 3/4	9 3/8	2 3/4	23 3/8	20 7/8	5 7/8	15 1/4	10	(4) — 1 1/4	SR-36-30	ER405	ER383
8 3/8	7 1/4	SDAF22238	SDAF238	22238	AN38	W38	8 3/8	27 3/8	10	3	23 1/2	21 1/2	6 1/4	16	10 5/8	(4) — 1 1/2	SR-38-32	ER414	ER223
8 3/4	7 5/8	SDAF22240	SDAF240	22240	AN40	W40	8 3/4	28 3/4	10 1/2	3 1/4	25	23	6 3/4	16 7/8	11 1/8	(4) — 1 3/8	SR-40-34	ER419	ER404
9 1/16	8 5/16	SDAF22244	SDAF244	22244	N44	W44	9 1/16	32	11 1/4	3 1/2	27 7/8	25 3/8	7 1/4	19	11 7/8	(4) — 1 1/2	SR-44-38	ER425	ER411

SERIES SDAF 223

Shaft Diam.†		Complete Pillow Block Number	Pillow Block Housing Only	□ Bearing Used	Lock-nut	Lock-washer	A	B	C	D	E		F	H	L	Bolts (No. Req'd)	Stabilizing Rings* (1 required)	Triple Seal Rings	
S-2 in.	S-3 in.						in.	in.	in.	in.	Max. in.	Min. in.	in.	in.	in.			S-2 Shaft (1 required)	S-3 Shaft (1 required)
3 5/8	3	SDAF22316	SDAF316	22316	AN16	W16	4 1/4	14 3/4	5 1/2	1 3/4	12 5/8	10 5/8	3 1/4	8 1/4	6 3/8	(4) — 5/8	SR-19-16	ER305	ER142
3 15/16	3 3/16	SDAF22317	SDAF317	22317	AN17	W17	4 1/2	15 1/4	6	1 5/8	13 1/8	11 5/8	3 3/8	8 13/16	6 3/4	(4) — 3/4	SR-20-17	ER157	ER280
4 1/8	3 3/8	SDAF22318	SDAF318	22318	AN18	W18	4 1/2	15 1/2	6 1/8	2	13 1/2	12	3 5/8	9 1/16	7 5/8	(4) — 3/4	SR-21-18	ER319	ER290
4 1/2	3 13/16	SDAF22320	SDAF320	22320	AN20	W20	5 1/4	16 3/8	6 3/8	2 1/4	14 1/2	13 1/4	4 1/8	10 1/2	7 3/8	(4) — 7/8	SR-24-20	ER333	ER308
4 7/8	4 3/16	SDAF22322	SDAF322	22322	AN22	W22	6	18 3/8	7 1/2	2 3/8	16	14 5/8	4 3/4	11 1/8	8	(4) — 1	SR-0-22	ER177	ER325
5 5/16	4 9/16	SDAF22324	SDAF324	22324	AN24	W24	6 5/16	21 1/4	7 7/8	2 1/2	18 3/4	17	4 3/4	12 3/16	8 3/8	(4) — 1 1/8	SR-0-24	ER184	ER337
5 7/8	4 15/16	SDAF22326	SDAF326	22326	AN26	W26	6 1/16	22	8 3/4	2 1/2	19 1/4	17 3/8	5	13 1/16	8 3/4	(4) — 1 1/8	SR-0-26	ER363	ER343
6 1/4	5 1/8	SDAF22328	SDAF328	22328	AN28	W28	7 1/16	24 3/4	9	2 3/2	21 5/8	19 3/8	5 1/2	14 1/4	9 5/8	(4) — 1 1/4	SR-0-28	ER373	ER350
6 5/8	5 3/4	SDAF22330	SDAF330	22330	AN30	W30	7 1/2	26 3/4	9 3/8	2 3/4	23 3/8	20 7/8	5 7/8	15 1/16	9 3/4	(4) — 1 1/4	SR-36-30	ER378	ER359
7	6 1/16	SDAF22332	SDAF332	22332	AN32	W32	7 7/8	27 3/8	10	3	23 1/2	21 1/2	6 1/4	16	10 5/8	(4) — 1 3/8	SR-38-32	ER394	ER370
7 1/16	6 7/16	SDAF22334	SDAF334	22334	AN34	W34	8 1/4	28 3/4	10 1/2	3 1/4	25	23	6 3/4	16 7/8	11 1/8	(4) — 1 3/8	SR-40-34	ER401	ER210
7 13/16	6 7/8	SDAF22336	SDAF336	22336	AN36	W36	8 3/8	30 1/2	10 3/4	3 3/4	26 3/8	24 1/8	6 3/4	17 1/16	11 5/8	(4) — 1 3/8	SR-0-36	ER226	ER386
8 3/8	7 1/4	SDAF22338	SDAF338	22338	AN38	W38	9 1/2	32	11 1/4	3 1/2	27 7/8	25 3/8	7 1/4	19	11 3/8	(4) — 1 1/2	SR-44-38	ER414	ER223
8 3/4	7 5/8	SDAF22340	SDAF340	22340	AN40	W40	9 3/8	33 3/4	11 1/4	3 1/2	29 3/4	26 3/8	7 3/8	19 3/4	12 3/8	(4) — 1 3/8	SR-0-40	ER419	ER404

*Specify Stabilizing Ring for "held" bearing. Only one bearing on each shaft should be held.

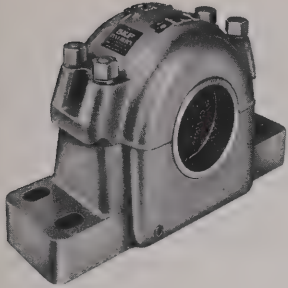
EXAMPLE HOW TO ORDER: When you order 1-SDAF 22326 you will receive a package containing 1-SDAF 326 Pillow Block Housing, 1 No. 22326 Bearing, 1 No. AN 26 Locknut and 1 No. W 26 Lockwasher. If your order specifies "held" bearing, you will receive, in addition, the necessary stabilizing rings. If you specify "one end closed," the required End Plug will be included.

†S-2 and S-3 dimensions must be in accordance with "American Standard Shafting Tolerances" to obtain proper triple seal ring clearance.

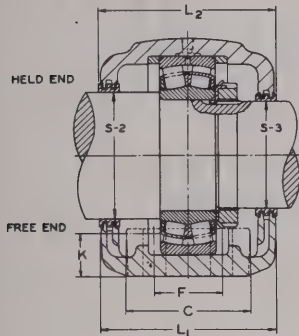
□ Most sizes are now furnished with improved internal "C" design bearings.

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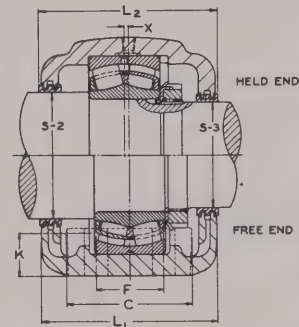
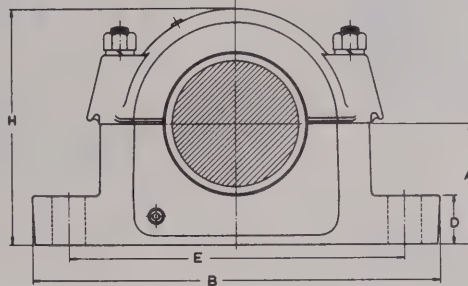
SKF SPHERICAL ROLLER BEARING PILLOW BLOCKS CYLINDRICAL BORE MOUNTING—SPLIT HOUSING



The new SKF "Dyna-Block," SAW Series has an improved, stronger, heavier sectioned casting. The housing cap is equipped with lifting grips for ease of handling. One housing can accommodate either a 222 or 232 Series bearing. The SAW Series is dimensionally interchangeable with the SAF Series, except for a nominal increase in the overall width in the new design. Increased oil capacity and larger drain holes under the seals for return of oil to the reservoir reduces variations in the oil level.



SAW 222



SAW 232

NOTE: Held bearing is offset $\frac{3}{16}$ " in relation to housing centerline. (X)

SERIES SAW 222—TRIPLE SEALED

Shaft Diam. †	Complete Pillow Block Number	Pillow Blocks Housing only	Bearing Used	Lock-nut	Lock-washer	A	B	C	D	E		F	H	L ₁	L ₂	4 Bolts Used	Stabilizing Ring* (2 req'd)	Triple Seal Rings		
						in.	in.	in.	in.	Max. in.	Min. in.	in.	in.	in.	in.			in.	in.	S-2 Shaft (1 required)
4½ in.	3 in.	SAW 22220	SAW 220	22220 C /W33	AN 20	W 20	4½	15¼	4¾	1¾	13½	11¾	2¾	8¾	7¾	7¾	¾	36059-20	LER 118	LER 106
4¾ in.	3½ in.	SAW 22222	SAW 222	22222 C /W33	AN 22	W 22	4½	16½	4¾	2	14½	12¾	2¾	9¾	7¾	7¾	¾	36059-22	LER 121	LER 113
5 in.	4 in.	SAW 22224	SAW 224	22224 C /W33	AN 24	W 24	5½	16¾	4¾	2½	14½	13	2¾	10½	7¾	8¾	¾	36059-24	LER 127	LER 119
5½ in.	4½ in.	SAW 22226	SAW 226	22226 C /W33	AN 26	W 26	6	18¾	5½	2¾	16	14	3¾	11½	8¾	8¾	¾	36059-26	LER 136	LER 122
6 in.	5 in.	SAW 22228	SAW 228	22228 C /W33	AN 28	W 28	6	20¾	5¾	2¾	17½	16	3¾	11½	8¾	8¾	1	36059-28	LER 144	LER 127
6½ in.	5½ in.	SAW 22230	SAW 230	22230 C /W33	AN 30	W 30	6½	21¾	6½	2½	18½	17	3¾	12½	9¾	9¾	1	36059-30	LER 151	LER 134
7 in.	6 in.	SAW 22232	SAW 232	22232 C /W33	AN 32	W 32	6½	22	6½	2¾	19½	17¾	3¾	13½	9¾	9¾	1	36059-32	LER 156	LER 142
7½ in.	6½ in.	SAW 22234	SAW 234	22234 C /W33	AN 34	W 34	7 in.	24¾	6¾	2¾	21½	19¾	4 in.	14¾	10 in.	10 in.	1	36059-34	LER 161	LER 148
8 in.	7 in.	SAW 22236	SAW 236	22236 C /W33	AN 36	W 36	7½	26¾	7¾	3	23½	20¾	4 in.	14¾	10½ in.	10½ in.	1	36059-36	LER 165	LER 154
8 in.	7 in.	SAW 22238	SAW 238	22238 C /W33	AN 38	W 38	7½	28	7¾	3 in.	24¾	21 in.	4½	15½ in.	10½ in.	10½ in.	1½	36059-38	LER 171	LER 160
8 in.	7 in.	SAW 22240	SAW 240	22240 C /W33	AN 40	W 40	8 in.	29½	8	3 in.	25	22½	5	16 in.	11 in.	11 in.	1½	36059-40	LER 175	LER 164
9 in.	8 in.	SAW 22244	SAW 244	22244 C /W33	N 44	W 44	9 in.	32¾	8¾	3 in.	27¾	24¾	5 in.	18 in.	12 in.	12 in.	1½	36059-44	LER 179	LER 170

SERIES SAW 232—TRIPLE SEALED

Shaft Diam. †		Complete Pillow Block Number	Pillow Blocks Housing only	Bearing Used	Lock-nut	Lock-washer	A	B	C	D	E		F	H	L ₁	L ₂	4 Bolts Used	Stabilizing Ring* (1 req'd)	Triple Seal Rings	
							in.	in.	in.	in.	Max. in.	Min. in.	in.	in.	in.	in.			in.	in.	S-2 Shaft (1 required)	S-3 Shaft (1 required)
4 1/2 in.	3 1/16 in.	SAW 23220	SAW 220	23220 C /W33	AN 20	W 20	4 1/2	15 1/4	4 3/8	1 3/4	13 1/8	11 3/8	2 3/8	8 3/8	7 3/8	7 3/8	3/4	SR-20-17	LER 118	LER 106
4 3/8 in.	3 in.	SAW 23222	SAW 222	23222 C /W33	AN 22	W 22	4 1/16	16 1/2	4 3/4	2	14 1/2	12 3/8	2 3/4	9 3/8	7 1/8	7 1/8	3/4	SR-22-19	LER 121	LER 113
5 5/8 in.	4 3/16 in.	SAW 23224	SAW 224	23224 C /W33	AN 24	W 24	5	16 3/4	5 1/8	2 1/8	15 1/2	13 1/4	2 3/4	10 3/8	7 1/8	8 1/8	3/4	SR-24-20	LER 127	LER 119
5 7/8 in.	4 1/2 in.	SAW 23226	SAW 226	23226 C /W33	AN 26	W 26	5 1/8	18 1/4	5 1/8	2 3/8	16 1/2	14 3/8	3 1/8	11 3/8	8 1/8	8 1/8	3/8	SR-26-0	LER 136	LER 122
6 1/4 in.	5 1/8 in.	SAW 23228	SAW 228	23228 C /W33	AN 28	W 28	6	20 1/4	5 3/8	2 3/4	17 1/2	16	3 3/8	11 3/8	8 1/8	8 1/8	1	SR-28-0	LER 144	LER 127
6 3/8 in.	5 3/4 in.	SAW 23230	SAW 230	23230 C /W33	AN 30	W 30	6 5/16	21 1/4	6 1/4	2 1/2	18 1/2	17	3 3/4	12 1/2	9 1/8	9 3/8	1	SR-30-0	LER 151	LER 134
7 in.	6 1/16 in.	SAW 23232	SAW 232	23232 C /W33	AN 32	W 32	6 11/16	22	6 1/2	2 5/8	19 1/2	17 3/8	3 3/4	13 3/8	9 3/4	9 7/8	1	SR-32-0	LER 156	LER 142
7 1/8 in.	6 7/16 in.	SAW 23234	SAW 234	23234 C /W33	AN 34	W 34	7	24 3/4	6 3/4	2 3/4	21 1/2	19 3/8	4 1/8	14 3/8	10 3/8	10 3/8	1	SR-34-0	LER 161	LER 148
7 1/4 in.	7 in.	SAW 23236	SAW 236	23236 C /W33	AN 36	W 36	7 1/8	26 3/4	7 1/8	3	23 3/8	20 3/8	4 3/8	14 3/8	10 3/8	10 3/8	1	SR-36-30	LER 165	LER 154
8 in.	7 1/4 in.	SAW 23238	SAW 238	23238 C /W33	AN 38	W 38	7 3/8	28	7 1/2	3 1/4	24 3/8	21 3/8	4 3/2	15 11/16	10 3/8	10 3/8	1 1/4	SR-38-32	LER 171	LER 160
8 3/4 in.	7 5/8 in.	SAW 23240	SAW 240	23240 C /W33	AN 40	W 40	8 1/4	29 1/2	8	3 3/8	25	22 3/2	5	16 1/2	11 3/8	11 3/8	1 1/4	SR-40-34	LER 175	LER 164
9 in.	8 5/8 in.	SAW 23244	SAW 244	23244 C /W33	N 44	W 44	9 1/2	32 3/4	8 3/4	3 3/4	27 3/8	24 3/4	5 1/2	18 3/8	12 3/8	12 3/8	1 1/2	SR-44-38	LER 179	LER 170

†S-2 and S-3 dimensions must be in accordance with "American Standard Shafting Tolerances" to obtain proper triple seal ring clearance.

*Specify Stabilizing Ring for "held" bearing. Only one bearing on each shaft should be held.

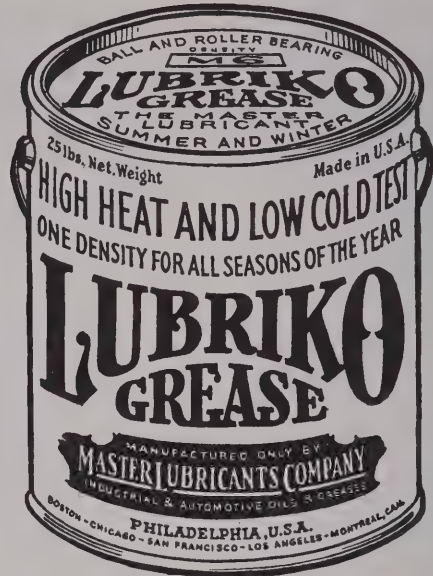
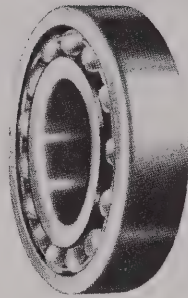
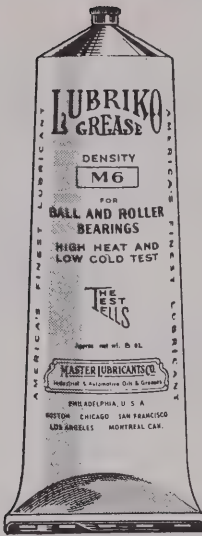
Blank bases will be furnished on special order.

HOW TO ORDER

Example: When you order one SAW 22226 or SAW 23226 you will receive one housing, one bearing, one locknut and one lockwasher as listed above.

If your order specifies "held" bearing, you will receive, in addition, the necessary stabilizing ring(s). If you require a pillow block with one end closed, specify "Type Y."

LUBRIKO TRADE-MARK REG. U. S. PAT. OFF. GREASES



**Made Exclusively For
MAINTENANCE AND NEEDS OF**

BALL and ROLLER BEARINGS

It Lubricates Better Because—

it is pure, free of non-lubricating fillers, moisture, acids, coloring, deodorants—highly filtered and packaged in air conditioned rooms to safeguard its purity.

LUBRIKO GREASES are non-gumming. Will not corrode polished steel surfaces.

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it has a low coefficient of friction, low starting and running torque, wide temperature range operating characteristics—from sub-zero to more than 300° F.

LUBRIKO GREASES have unusual film strength. Hold their consistency even under severe operating conditions.

It Has a Performance Record Because—

it makes bearings run smoother, longer, cooler with less maintenance. That is why it is so widely endorsed by manufacturers of ball and roller bearings, electric motors and designers of modern high speed machinery.

See Page 330 for Densities

**Ball and roller bearings are a valuable investment.
Protect them with the finest bearing grease available.**

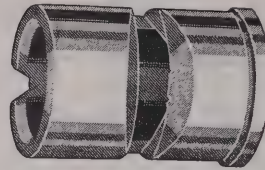
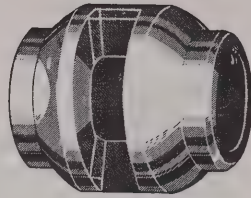
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SPECIALTIES INDEX

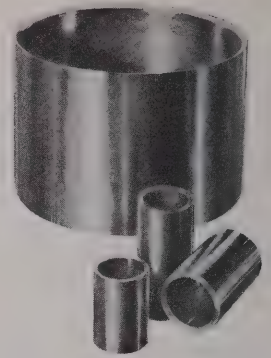
	Page		Page
BABBITT		NYLON	
"Stonewall" Coppered	288	Polypenco Nylon 101	342
Government Genuine	289	Nylatron "GS" Nylon	342
Manganese Antifriction	289	Monocast "MC" Nylon	342
Tintite Babbitt Bond	289	Polypenco TFE Fluorocarbon	343
Damtite Seal	289	Polypenco "Fluorosint"	343
"BEARHUG" LOCKNUTS	375	Polypenco "Nylaflow" Tubing	343
BUNTING BRONZE		OILITE	337
Aluminum-Tin Bars	291	"O" RINGS	
Descriptive Data	290-291	Gland Design Data	338
Tubular and Solid Machined Bars	292-293	"O" Ring Kits	338
Industrial Type Bushings	294-300	"O" Ring Material Code Numbers	339
Bronze Bearing Installation Tolerances	300	"O" Ring Size Dash Numbers	339-341
Grooving and Graphiting	301	Tube Fitting Sizes	341
"EL" Electric Motor Bushings	302-308	OTC PULLING SYSTEM	
Sintered Bronze Plain Bearings	309-313	Grip-O-Matic Pullers	332
Sintered Bronze Flange Bearings	314-315	Pulling Attachments	333
Sintered Bronze Thrust Bearings	315	Push-Pullers	334
Sintered Bronze Bars	316	Hydraulic Pullers	335
CHICAGO RAWHIDE SEALS	344	Hydraulic Pumps	336
GARLOCK KLOZURES	345	POPE SPINDLES	385
HALLOWELL		SPINDLE REPAIR SERVICE	386
Solid and Split Shaft Collars	320	SHAFT LOCKNUTS and LOCKWASHERS	375-377
HEIM		STURDIMATIC	
Unibal Bearings and Rod Ends	317	Live Centers	326-327
IDEAL LIVE CENTERS		Revolving Stock Stop	327
"Multi-Duty" Series	321	THOMSON	
"Heavy Duty" Series	322	Nylined Bearings	378
"Pipe Point" Series	323	Nyliners	378
"Universal" Series	322	Flanged and Snap-In Nyliners	379
KEYSTONE END BELLS		Ball Bushings—"A" and "XA" Series	380
Sleeve Bearing Replacements	318-319	Ball Bushings—"OPN" and "ADJ" Series	381
LIVE CENTERS	321-327	Ball Bushing Retaining Rings and Seals	381
"LOCTITE"		Die Set Ball Bushings	382
Liquid Lock for Metal Parts	328-329	Miniature Instrument Ball Bushings	382
LUBRIKO GREASE		60 Case Hardened and Ground Shafts	383
Specifications and Densities	330-331	VICTOPRENE OIL SEALS	
NIROL NEEDLE BEARING LIVE CENTERS		Victoprene Oil Seal Types	347
MORSE Taper	324	Progressive Size Listing	348-362
JARNO Taper	324	Type "E" External Seal	363
Straight Shank	324	"MF" Metal Encased Felt Seals	363-364
B & S Taper	324	Table of Recommended Press Fits	364
LANDIS Taper	324	Numerical Listing	365-371
NORTON Taper	324	Application Recommendations	372-373
Bell Head	325	Analysis of Oil Leakage	374
		WALDES	
		Truarc Retaining Rings and Pliers	387-391
		Assembly and Accessory Tools	389
		WHITNON SPINDLES	384

SPECIALTIES

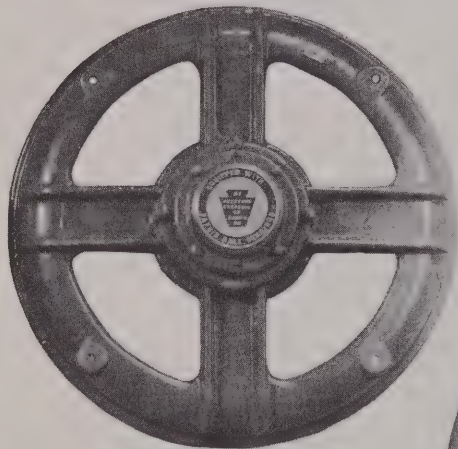
Bunting Machined Bronze Bars



Bunting Electric Motor Bushings



Bunting Industrial Bushings



Keystone End Bells



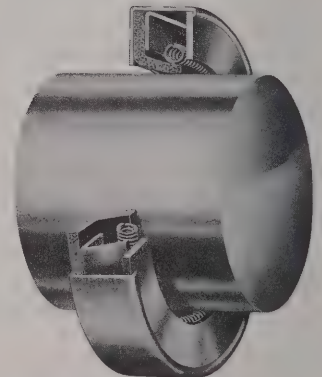
Loctite



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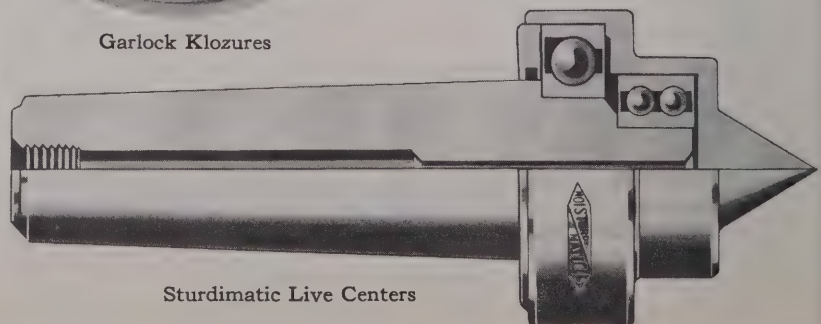
Garlock Kloxures



Chicago Rawhide Seals



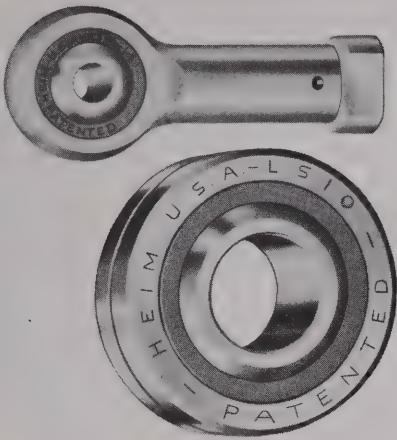
Stonewall Coppered Babbitt



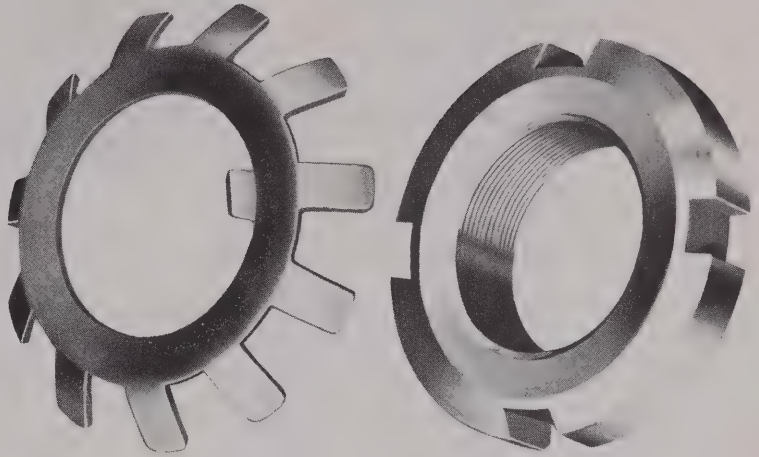
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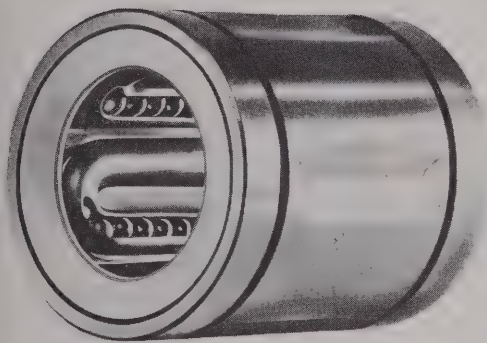
SPECIALTIES



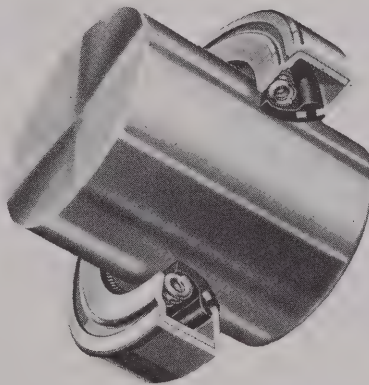
Heim Rod Ends



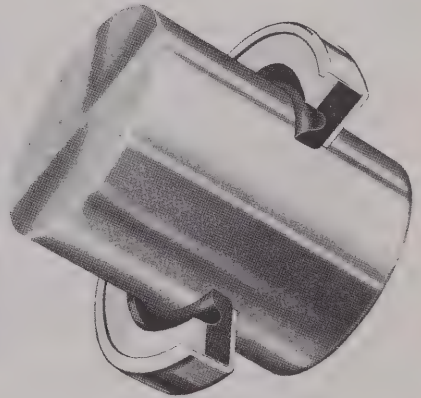
Shaft Locknuts and Washers



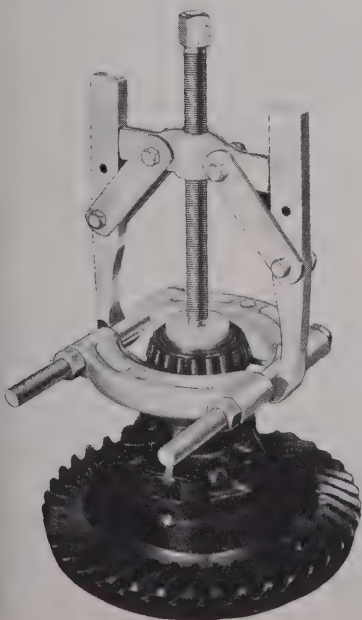
Thomson Ball Bushings



Victoprene Seals Type H



Victoprene Seals Type W



OTC Grip-O-Matic Tools



"O" Rings and "O" Ring Kits



Retaining Rings and Retaining Ring Kits

NEED HELP ON BEARINGS—CALL US

SYRACUSE BABBITTS - - - MADE IN AMERICA - - - USED THE WORLD OVER

**STONEWALL
THE COPPERED
BABBITT**
of the famous family of
SYRACUSE BABBITTS

**ALLOYED BY THE
STANLEY PROCESS**

Stonewall Babbitt is recommended for

Abrasive machinery	Eccentrics	Propeller shafts
Agitators	Edgers	Pulp-grinders
Aluminum rolling-mills	Electric motors	Pulverizing-mills
Arbors (in saw-mills)	Elevators	Pumps (centrifugal)
Automotive trucks	Embossing machines	Punch-presses
Axles	Extruding machines	Quarries (crushers)
Bagasse carriers	Flaking-rolls	Rag-rotaries
Ball-mills	Flour-mills	Reduction gear-drives
Band-saws	Foil-mills	Resaws
Beaters	Fourdriniers	River-boats (line-shafts)
Blast furnace (blowing-engine)	Gas engines (main bearings)	Rock-crushers
Bleaching machines (textile)	Generators	Rolling-mills
Blooming-mill engines (cross-head shoes)	Great Lake boats (line-shafts)	Roll-neck bearings (in steel-mills)
Blooming-mill engines (main crank-pins)	Grinders	Rotary-cookers
Booms	Gyratory crushers	Sanding-machines
Box-car loaders	Hacksaw (power)	Saws (band)
Braiding machines (textile)	Hammermill crushers	Saws (hot and cold in steel-mills)
Brick machinery	Hoisting-engines	Saws (circular)
Broaching machines	Hot slab mill	Saws (gang)
Buffing machines	Ice-crushers	Saws (gang)
Calenders	Jaw-crushers	Separators (tanneries)
Card machinery	Jordans (shredders)	Shearing-machines
Carpet looms	Knitting machines (textile)	Slashers
Caterpillar tractors	Kominuter (cement-mills)	Slide-valves
Cement-mills	Lathes	Speed reducers
Centrifugals	Line-shafts (main bearings)	Spindle-bearings (in steel-mills)
Chippers	Logging engines	Spinning machines (textile)
Cold roll strip-mills	Looms (textile)	Steam engines (main bearings)
Colloid mills	Marine engines (main bearings)	Steam-pumps
Compressors	Metal spinning-machines	Steam-shovels
Concrete machinery	Mill-gearings	Swing-jaw crushers
Concrete mixers	Mining (crushers)	Swing-saws
Connecting-rods	Mixing-mills	Tanning machinery
Concentrators	Molding machines	Throw eccentrics
Crank-pins	Ocean-liners (line shafts)	Tractors
Crossheads	Oil engines (main bearings)	Trimmers
Crushers	Oil-wells	Trolley cars
Crystallizer drives	Planers	Tube-mills
Cutters	Polishers	Turbines
Diesel engines (main bearings)	Power-presses	Turbo-compressors
Dipper dredges	Power-shovels	Vacuum-pumps
Dredging pumps	Pressure-blowers	Warming-mills
Drop-hammers	Printing presses	Water-pumps
Dryers		Water-turbines
Dyeing machinery (textile)		Wire-cutting machines
		Wire-drawing machines
		Wire-forming machines

STONEWALL COPPERED BABBITT REQUIRES NO DIFFERENT TECHNIQUE IN HANDLING THAN HAS BEEN THE USUAL PRACTICE IN POURING BEARINGS



Name
Registered
U. S. Pat. Off.

Fits the
ladle

Stonewall is not a brittle babbitt, yet hard enough to carry a heavy load without squeezing from the box. It does not shrink appreciably and can be used for large or small bearings. Because of its plasticity, it conforms at once to the shaft. For the same reason, where the shaft is scored, Stonewall is especially adaptable.

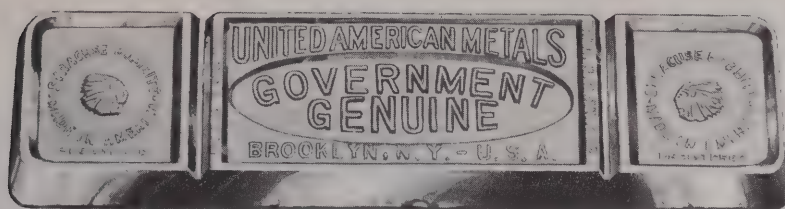
As indicated by its compressive and tensile strength, Stonewall coppered babbitt affords an ample margin of safety for almost every bearing service where a high tin-base babbitt was believed to be essential. When it is considered that upon an applied load of 13,150 lbs., the nominal stress per square inch of Stonewall coppered babbitt is 21,900 lbs., that its maximum actual stress is 16,380 lbs. per square inch and at this stress the babbitt does not fracture, and that its yield point is at 8720 lbs. per square inch, it becomes evident that this is an extraordinary babbitt for bearings which are subjected to heavy load and pressure.

Strength without elasticity is of no avail in a babbitt. As evidence of the elasticity of Stonewall coppered babbitt, its breaking point in tensile stress versus strain is at 10,800 lbs. per square inch. It is because of its tensility combined with its compressive strength that this babbitt can stand up so well under shock, load, pound, pressure and vibration.

Stonewall has a low coefficient of friction and, therefore, requires less lubricating attention than any other babbitt of equal strength. This property is of the utmost importance to a bearing operating under heavy duty and high speed.

NEED HELP ON BEARINGS—CALL US

SYRACUSE BABBITTS - - MADE IN AMERICA - - USED THE WORLD OVER



**GOVERNMENT
GENUINE**
of the famous family of
SYRACUSE BABBITTS

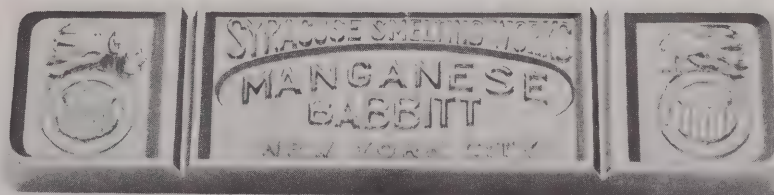
Alloyed by the Stanley Process
Name and design of ingot registered U.S. Patent Office
Heat at which to pour, 700°F—375°C

Government Genuine is the highest grade of tin-base babbitt. This babbitt will not break under the heaviest shock, it will not creep under the heaviest pressure, it will not fail under the highest speed. No other babbitt has been known to show such a record of bearing performance as Government Genuine.

It is folly to believe that babbitt which is to line an important bearing can be bought at a price based solely on the cost of the tin, copper and antimony in the metal. Babbitt for such bearings is a specialized product requiring not only the purest grades of tin, antimony and copper, but a thorough knowledge of the metallurgy required for scientifically alloying a babbitt metal.

In cents per pound, Government Genuine Babbitt is probably the highest priced babbitt metal made. In quality, by which we mean its ability to give long wear under gruelling operating conditions, it is the most economical babbitt made. In its ability to withstand abuse, Government Genuine Babbitt has no equal.

**MANGANESE
ANTIFRICTION**
of the famous family of
SYRACUSE BABBITTS



Heat at which to pour, 600°F—315° C
Alloyed by the Stanley Process
Name and design of ingot registered U.S. Patent Office

Manganese Antifriction is the perfect babbitt for all-around service. Because of its self-lubricating nature this babbitt does not heat or soften when subjected to more than ordinary friction. It is therefore especially recommended for bearings not easily accessible. It is easy to handle, flows like quicksilver, casts a solid bearing and takes a mirror finish which adds further to its smooth running. We have never heard of a hot-box where this babbitt lines the bearing.

Manganese Antifriction is non-oxidizing—it does not lose tin while molten. This is an exclusive property attained by the patented process under which it is manufactured.

**Bond it with
TINTITE**

and

**Seal it with
DAMTITE**

To bind a bearing to the back, a tinning operation is essential. Tintite bonds the babbitt firmly to the back, whether the shell is bronze, steel or iron.

The process is simple: Apply a thin coat of Tintite to the cold shell. If the shell is steel or cast iron, clean the surface thoroughly by sand blasting or by filing or with emery paper or grinding wheel. The brighter the surface, the better the tinning job. Heat the shell until the Tintite melts, as will be evident when a brown area covers the surface. Wipe off the surface with a rag using a clean section for each pass.

Put up in jars of 1 lb. and 5 lbs.

Bearings are frequently cast with porous grain and hidden blow-holes because the material used to dam the metal contains moisture which generates a steam that permeates through the metal.

Damtite is absolutely free from moisture. It has the strength to resist the weight of the metal and to prevent it from seeping through the seams. It is smokeless and odorless and can be used over and over again.

(Damtite is also used for sealing oil holes or other openings where strong solutions might enter and cause damage during the preparation of motors, transformers and other machines.)

Put up in convenient rolls weighing approximately one pound and packed ten rolls to the container.

NEED HELP ON BEARINGS—CALL US

BUNTING**PHOSPHOR BRONZE PRODUCTS****1. TUBULAR AND SOLID BARS****ALLOY**

83% Copper
7% Tin
7% Lead
3% Zinc

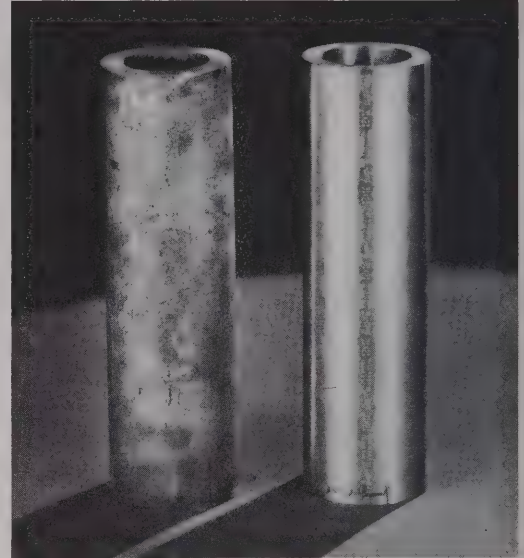
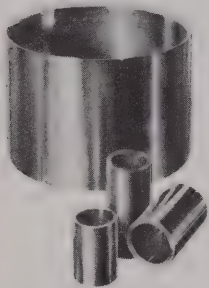
The composition is Bunting No. 72 (SAE 660) Bearing Bronze. The perfect balance of desirable physical properties is assured by constant, scientific control of all casting operations.

The same bearing metal used by the majority of machinery manufacturers is cast into Bunting Bearing Bronze Bars to enable you to maintain the satisfactory performance of your equipment.

You are not buying several pounds of excess metal to waste when you purchase Bunting Bars. They are precision machined on all surfaces and are 13" long so that a greater number of standard bearing lengths may be cut without waste.

Due to the smooth surface finishes and the bore being concentric with the O. D., they can be set true in a universal chuck in a moment. With only a light finishing cut on the O. D. and I. D. necessary to finish to standard bearing size, they will reduce set-up and machining time by half. There is no rough scale to burn up tool bits or to hide blow holes and sand pits. Every bar is guaranteed to be free from under-surface defects.

Compare the quality of the metal, the saving in purchased weight (about 25%), and the reduced machining cost with the expense of rough bars.

**2. INDUSTRIAL SLEEVE BEARINGS**

These bearings are made in hundreds of different sizes to meet practically every application required in machinery production and maintenance. They are completely machined, ready for assembly, and can also be furnished with oil grooves and drilled holes, cut to desired length, or graphited.

All stock bearings are made of Bunting No. 72 (S.A.E. 660) alloy, each chemical constituent of which has been proved to have a definite function

in imparting exceptional bearing qualities.

Sleeve bearings, if properly designed and lubricated, will operate with a low co-efficient of friction. For that reason, careful thought should be given to bearing proportions, fits, oil holes, and grooves, because only when all of these factors are correctly considered can a film of oil be built up and maintained between journal and bearing.

3. ELECTRIC MOTOR BEARINGS

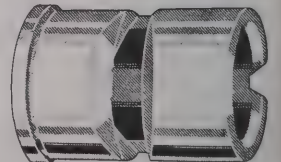
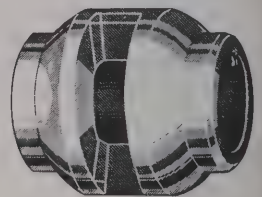
Bunting Standardized Sand Cast Bronze Electric Motor Bearings were created to make possible the quick and economical servicing of any motor requiring new bearings.

Bunting Bearings for replacement in all makes of electric motors from 1-50 h. p. to 100 h. p. are available from stock.

These replacement bearings are made to the exact design, dimensions and tolerances specified by the manufacturer of the motor. All grooves, oil holes and other details of the original

specifications are provided to assure correct and trouble-free installation.

Bunting Electric Motor Bearings are made of Bunting No. 72 (S.A.E. 660) Bronze, "the metal that is kind to the shaft." They provide every requirement of wear resistance and suitability, both of which should be provided in an electric motor bearing. These bearings will operate perfectly at high temperatures, and afford ample resistance to pounding and wear.



Bunting Tubular and Solid Bars, Standardized Industrial Bearings and Electric Motor Bearings are available from large stocks carried at our Cleveland Warehouse and from branches located in principal cities in Kentucky, Ohio, Indiana, West Virginia, Pennsylvania, New Jersey, North Carolina, South

Carolina, Tennessee, Louisiana, Arkansas, Florida, Georgia, Virginia, Delaware, Maryland, Missouri, and New York. The complete line is covered in a separate catalog which is yours for the asking.

Standardize on Bunting! It will pay you dividends to do so!

NEED HELP ON BEARINGS—CALL US

BUNTING

SINTERED BRONZE AND ALUMINUM-TIN PRODUCTS

4. SINTERED BRONZE BARS

Bunting offers a wide size selection of bars made of Bunting sintered bronze. The chemical and physical specifications of the bronze used in Bunting standard stock sizes of sintered bronze bars are ASTM-B202, Type I, Class A. This material also meets the requirements of the following specifications:—SAE Type I, Class A, AMS 4805 and MIL-B-5687A Type I, Comp. A. The basic composition of the material is 90% copper and 10% tin of high purity.

After forming, sintering and sizing, the bars are oil impregnated to provide a supply of lubricant. This modern alloy with its built-in supply of oil is the simplest answer to countless bearing problems.



5. SINTERED BRONZE BEARINGS



Stock Sintered Bronze bearings are supplied with the dimensions accurately controlled so as to provide for correct shaft-bearing running clearances, bearing to housing press fits for ideal anchorage, and simple, easy and accurate assembly. These stock bearing sizes have been selected after years of experience and study of the widest range of engineering data and of bearing applications. They will give the ultimate of performance in the highest percentage of cases.

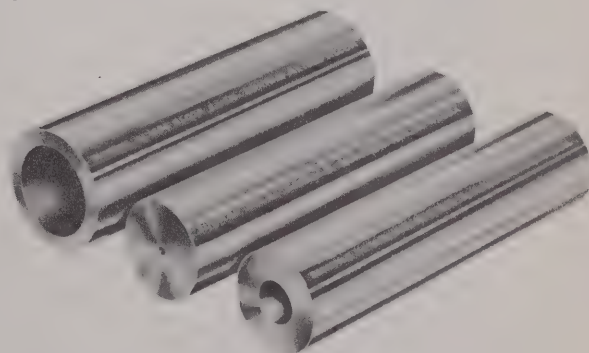
6. ALUMINUM-TIN BARS

Bunting Bearing Aluminum is the newest metal offered in bar form as a thoroughly good bearing material. It is available in 138 sizes of tubular and solid bars.

If you are using a low price bronze bar, this new Bunting Bearing Aluminum bar will meet your need for high quality at low cost.

Bunting Bearing Aluminum offers improved quality over low priced bronze bars and at a comparable price. It possesses the following important qualities which make a good sleeve bearing material:

- High heat conductivity
- Excellent embedability
- Good ductility
- High load carrying capacity
- High resistance to corrosion
- Conformability to the shaft
- Good fatigue strength



PHYSICAL PROPERTIES (Alcoa B-750T-5)

Tensile Strength	27,000 Lb./sq. in.
Tensile Yield.	18,000 Lb./sq. in.
Elongation.	3.0% in 2 in.
Compressive Yield	20,000 Lb./sq. in.
Brinell Hardness (500 Kg-Load, 10 MM Ball) 45	

COMPLETE BUNTING CATALOG
AVAILABLE ON REQUEST.

BUNTING

PRECISION MACHINED BRONZE BARS

TUBULAR AND SOLID

IMPORTANT

All bars finish to the size listed

EXAMPLETo make a $1\frac{1}{2}$ " x 2" bearing use a bar of that size.**TOLERANCES****INSIDE DIAMETER**

Up to 4" Minus $\frac{1}{32}$ "
 4" and over . . . Minus $\frac{1}{16}$ "

ALL BARS 13" LONG6 $\frac{1}{2}$ " lengths also available**OUTSIDE DIAMETER**

Up to 4" Plus $\frac{1}{32}$ "
 4" and over Plus $\frac{1}{16}$ "

TUBULAR BRONZE BARS

Mach. I.D.	Mach. O.D.	Part Number	Approx. Weight (Lbs.)
$\frac{1}{2}$	*1	BC 408	$2\frac{3}{4}$
	$\frac{11}{8}$	BC 409	$3\frac{3}{4}$
	$\frac{11}{4}$	BC 410	$4\frac{3}{4}$
	$\frac{13}{8}$	BC 411	$5\frac{3}{4}$
	$\frac{11}{2}$	BC 412	7
	$\frac{13}{4}$	BC 414	$9\frac{3}{4}$
$\frac{5}{8}$	2	BC 416	$12\frac{3}{4}$
	* $\frac{11}{8}$	BC 509	$3\frac{1}{4}$
	$\frac{11}{4}$	BC 510	$4\frac{1}{4}$
	$\frac{13}{8}$	BC 511	$5\frac{1}{4}$
	$\frac{11}{2}$	BC 512	$6\frac{1}{2}$
	$\frac{15}{8}$	BC 513	$7\frac{3}{4}$
$\frac{3}{4}$	$\frac{13}{4}$	BC 514	$9\frac{1}{4}$
	2	BC 516	$12\frac{1}{4}$
	$\frac{21}{8}$	BC 517	14
	* $\frac{11}{4}$	BC 610	$3\frac{3}{4}$
	$\frac{13}{8}$	BC 611	$4\frac{3}{4}$
	$\frac{11}{2}$	BC 612	6
$\frac{7}{8}$	$\frac{15}{8}$	BC 613	$7\frac{1}{4}$
	$\frac{13}{4}$	BC 614	$8\frac{1}{2}$
	$\frac{17}{8}$	BC 615	$10\frac{1}{4}$
	2	BC 616	$11\frac{3}{4}$
	$\frac{21}{8}$	BC 617	$13\frac{1}{2}$
	$\frac{21}{4}$	BC 618	$15\frac{1}{4}$
1	$\frac{21}{2}$	BC 620	$19\frac{1}{4}$
	$\frac{23}{4}$	BC 622	$23\frac{1}{2}$
	* $\frac{13}{8}$	BC 711	$4\frac{1}{4}$
	$\frac{11}{2}$	BC 712	$5\frac{1}{2}$
	$\frac{15}{8}$	BC 713	$6\frac{1}{2}$
	$\frac{13}{4}$	BC 714	8
$1\frac{1}{8}$	$\frac{17}{8}$	BC 715	$9\frac{1}{2}$
	2	BC 716	$11\frac{1}{4}$
	$\frac{21}{8}$	BC 717	$12\frac{1}{2}$
	$\frac{21}{4}$	BC 718	$14\frac{3}{4}$
	* $\frac{11}{2}$	BC 812	$4\frac{3}{4}$
	* $\frac{15}{8}$	BC 813	6
$1\frac{1}{4}$	* $\frac{13}{4}$	BC 814	$7\frac{1}{4}$
	$\frac{17}{8}$	BC 815	$8\frac{3}{4}$
	2	BC 816	$10\frac{1}{2}$
	$\frac{21}{8}$	BC 817	12
	* $\frac{15}{4}$	BC 913	5
	$\frac{13}{2}$	BC 914	$6\frac{1}{2}$
$1\frac{1}{2}$	* $\frac{17}{8}$	BC 915	8
	*2	BC 916	$9\frac{1}{2}$
	$\frac{21}{8}$	BC 917	11
	$\frac{21}{4}$	BC 918	13
	$\frac{23}{8}$	BC 919	15
	$\frac{21}{2}$	BC 920	17
$1\frac{3}{8}$	$\frac{23}{4}$	BC 922	$21\frac{1}{4}$
	$\frac{27}{8}$	BC 923	$23\frac{1}{4}$
	* $\frac{13}{4}$	BC1014	$5\frac{1}{4}$
	* $\frac{17}{8}$	BC1015	7
	*2	BC1016	$8\frac{1}{2}$
	$\frac{21}{8}$	BC1017	$10\frac{1}{2}$
$1\frac{1}{2}$	$\frac{21}{4}$	BC1018	$12\frac{1}{4}$
	$\frac{23}{8}$	BC1019	14
	$\frac{21}{2}$	BC1020	16
	$\frac{25}{8}$	BC1021	18
	$\frac{23}{4}$	BC1022	20
	$\frac{27}{8}$	BC1023	$22\frac{1}{2}$
$1\frac{3}{4}$	3	BC1024	25
	$\frac{31}{4}$	BC1026	30
	$\frac{31}{2}$	BC1028	35
	4	BC1032	47
	* $\frac{17}{8}$	BC1115	6
	*2	BC1116	$7\frac{1}{2}$
$1\frac{7}{8}$	* $\frac{21}{8}$	BC1117	9
	$\frac{21}{4}$	BC1118	11
	$\frac{23}{8}$	BC1119	13
	$\frac{21}{2}$	BC1120	15
	$\frac{25}{8}$	BC1121	$16\frac{3}{4}$
	$\frac{23}{4}$	BC1122	$19\frac{1}{4}$
$1\frac{1}{2}$	3	BC1124	$24\frac{1}{4}$
	* $\frac{21}{8}$	BC1216	$6\frac{1}{2}$
	* $\frac{21}{4}$	BC1217	$8\frac{1}{4}$
	* $\frac{21}{2}$	BC1218	$9\frac{3}{4}$
	$\frac{23}{8}$	BC1219	12
	$\frac{21}{4}$	BC1220	$13\frac{3}{4}$
$1\frac{3}{4}$	$\frac{25}{8}$	BC1221	16
	$\frac{23}{2}$	BC1222	18
	3	BC1224	23
	$\frac{31}{4}$	BC1226	$27\frac{3}{4}$
	$\frac{31}{2}$	BC1228	32
	$\frac{33}{4}$	BC1230	$39\frac{1}{2}$
$1\frac{7}{8}$	4	BC1232	45
	$\frac{41}{2}$	BC1236	59
	* $\frac{21}{8}$	BC1317	7
	$\frac{21}{4}$	BC1318	$8\frac{3}{4}$
	$\frac{23}{8}$	BC1319	$10\frac{1}{2}$
	$\frac{21}{2}$	BC1320	12
$1\frac{1}{2}$	$\frac{25}{8}$	BC1321	$14\frac{3}{4}$
	$\frac{23}{4}$	BC1322	17
	3	BC1324	$21\frac{3}{4}$
	* $\frac{21}{4}$	BC1418	$7\frac{1}{4}$
	* $\frac{23}{8}$	BC1419	$9\frac{1}{4}$
	* $\frac{21}{2}$	BC1420	$11\frac{1}{2}$
$1\frac{3}{4}$	$\frac{25}{8}$	BC1421	$13\frac{1}{4}$
	$\frac{23}{4}$	BC1422	$15\frac{1}{2}$
	$\frac{27}{8}$	BC1423	17
	3	BC1424	$20\frac{1}{4}$
	$\frac{31}{4}$	BC1426	$25\frac{1}{4}$
	$\frac{31}{2}$	BC1428	30
$1\frac{7}{8}$	$\frac{33}{4}$	BC1430	36
	4	BC1432	$42\frac{1}{2}$
	$\frac{41}{4}$	BC1434	50
	* $\frac{23}{8}$	BC1519	8
	$\frac{21}{2}$	BC1520	$9\frac{3}{4}$
	$\frac{25}{8}$	BC1521	12
$1\frac{1}{2}$	$\frac{23}{4}$	BC1522	14
	$\frac{27}{8}$	BC1523	$16\frac{1}{4}$
	3	BC1524	19
	$\frac{31}{4}$	BC1526	24
	* $\frac{21}{8}$	BC1527	27

Mach. I.D.	Mach. O.D.	Part Number	Approx. Weight (Lbs.)
$\frac{1}{2}$	$\frac{21}{4}$	BC 818	14
	$\frac{23}{8}$	BC 819	16
	$\frac{21}{2}$	BC 820	$17\frac{3}{4}$
	$\frac{23}{4}$	BC 822	$21\frac{3}{4}$
	3	BC 824	$26\frac{3}{4}$
	$\frac{31}{4}$	BC 826	$32\frac{1}{4}$
$\frac{5}{8}$	$\frac{31}{2}$	BC 828	37
	4	BC 832	50
	* $\frac{15}{8}$	BC 913	5
	$\frac{13}{4}$	BC 914	$6\frac{1}{2}$
	* $\frac{17}{8}$	BC 915	8
	*2	BC 916	$9\frac{1}{2}$
$\frac{3}{4}$	$\frac{21}{8}$	BC 917	11
	$\frac{21}{4}$	BC 918	13
	$\frac{23}{8}$	BC 919	15
	$\frac{21}{2}$	BC 920	17
	$\frac{23}{4}$	BC 922	$21\frac{1}{4}$
	$\frac{27}{8}$	BC 923	$23\frac{1}{4}$
$\frac{7}{8}$	* $\frac{13}{4}$	BC1014	$5\frac{1}{4}$
	* $\frac{17}{8}$	BC1015	7
	*2	BC1016	$8\frac{1}{2}$
	$\frac{21}{8}$	BC1017	$10\frac{1}{2}$
	$\frac{21}{4}$	BC1018	$12\frac{1}{4}$
	$\frac{23}{8}$	BC1019	14
$\frac{1}{2}$	$\frac{21}{2}$	BC1020	16
	$\frac{25}{8}$	BC1021	18
	$\frac{23}{4}$	BC1022	20
	$\frac{27}{8}$	BC1023	$22\frac{1}{2}$
	3	BC1024	25
	$\frac{31}{4}$	BC1026	30
$\frac{5}{8}$	$\frac{31}{2}$	BC1028	35
	4	BC1032	47
	* $\frac{17}{8}$	BC1115	6
	*2	BC1116	$7\frac{1}{2}$
	* $\frac{21}{8}$	BC1117	9
	$\frac{21}{4}$	BC1118	11
$\frac{3}{4}$	$\frac{23}{8}$	BC1119	13
	$\frac{21}{2}$	BC1120	15
	$\frac{25}{8}$	BC1121	$16\frac{3}{4}$
	$\frac{23}{4}$	BC1122	$19\frac{1}{4}$
	3	BC1124	$24\frac{1}{4}$
	* $\frac{21}{8}$	BC1216	$6\frac{1}{2}$
$\frac{7}{8}$	* $\frac{21}{4}$	BC1217	$8\frac{1}{4}$
	* $\frac{21}{2}$	BC1218	$9\frac{3}{4}$
	$\frac{23}{8}$	BC1219	12
	$\frac{21}{4}$	BC1220	$13\frac{3}{4}$
	$\frac{25}{8}$	BC1221	16
	$\frac{23}{2}$	BC1222	18
1	3	BC1224	23
	$\frac{31}{4}$	BC1226	$27\frac{3}{4}$
	$\frac{31}{2}$	BC1228	32
	$\frac{33}{4}$	BC1230	$39\frac{1}{2}$
	4	BC1232	45
	$\frac{41}{2}$	BC1236	59
$1\frac{1}{8}$	* $\frac{21}{8}$	BC1317	7
	$\frac{21}{4}$	BC1318	$8\frac{3}{4}$
	$\frac{23}{8}$	BC1319	$10\frac{1}{2}$
	$\frac{21}{2}$	BC1320	12
	$\frac{25}{8}$	BC1321	$14\frac{3}{4}$
	$\frac{23}{4}$	BC1322	17
$1\frac{1}{4}$	3	BC1324	$21\frac{3}{4}$
	* $\frac{21}{4}$	BC1418	$7\frac{1}{4}$
	* $\frac{23}{8}$	BC1419	$9\frac{1}{4}$
	* $\frac{21}{2}$	BC1420	$11\frac{1}{2}$
	$\frac{25}{8}$	BC1421	$13\frac{1}{4}$
	$\frac{23}{4}$	BC1422	$15\frac{1}{2}$
$1\frac{1}{2}$	$\frac{27}{8}$	BC1423	17
	3	BC1424	$20\frac{1}{4}$
	$\frac{31}{4}$	BC1426	$25\frac{1}{4}$
	$\frac{31}{2}$	BC1428	30
	$\frac{33}{4}$	BC1430	36
	4	BC1432	$42\frac{1}{2}$
$1\frac{3}{8}$	$\frac{41}{4}$	BC1434	50
	* $\frac{23}{8}$	BC1519	8
	$\frac{21}{2}$	BC1520	$9\frac{3}{4}$
	$\frac{25}{8}$	BC1521	12
	$\frac{23}{4}$	BC1522	14
	$\frac{27}{8}$	BC1523	$16\frac{1}{4}$
$1\frac{1}{2}$	3	BC1524	19
	$\frac{31}{4}$	BC1526	24
	* $\frac{21}{8}$	BC1527	27

Mach. I.D.	Mach. O.D.	Part Number	Approx. Weight (Lbs.)
$\frac{1}{2}$	*2	BC1216	$6\frac{1}{2}$
	* $\frac{21}{8}$	BC1217	$8\frac{1}{4}$
	* $\frac{21}{4}$	BC1218	$9\frac{3}{4}$
	$\frac{23}{8}$	BC1219	12
	$\frac{21}{2}$	BC1220	$13\frac{3}{4}$
	$\frac{25}{8}$	BC1221	16
$\frac{5}{8}$	$\frac{23}{4}$	BC1222	18
	3	BC1224	23
	$\frac{31}{4}$	BC1226	$27\frac{3}{4}$
	$\frac{31}{2}$	BC1228	32
	$\frac{33}{4}$	BC1230	$39\frac{1}{2}$
	4	BC1232	45
$\frac{3}{4}$	$\frac{41}{2}$	BC1236	59
	* $\frac{21}{8}$	BC1317	7
	$\frac{21}{4}$	BC1318	$8\frac{3}{4}$
	$\frac{23}{8}$	BC1319	$10\frac{1}{2}$
	$\frac{21}{2}$	BC1320	12
	$\frac{25}{8}$	BC1321	$14\frac{3}{4}$
$\frac{7}{8}$	$\frac{23}{4}$	BC1322	17
	3	BC1324	$21\frac{3}{4}$
	* $\frac{21}{4}$	BC1418	$7\frac{1}{4}$
	* $\frac{23}{8}$	BC1419	$9\frac{1}{4}$

BUNTING PRECISION MACHINED BRONZE BARS—TUBULAR AND SOLID TUBULAR BRONZE BARS—Continued

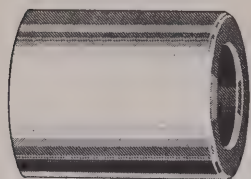
Mach. I.D.	Mach. O.D.	Part Number	Approx. Weight (Lbs.)	Mach. I.D.	Mach. O.D.	Part Number	Approx. Weight (Lbs.)	Mach. I.D.	Mach. O.D.	Part Number	Approx. Weight (Lbs.)
2	*2 $\frac{1}{2}$	BC1620	8 $\frac{1}{4}$	2 $\frac{1}{2}$	3 $\frac{3}{4}$	BC2030	27	3 $\frac{3}{4}$	4 $\frac{3}{4}$	BC3038	29
	*2 $\frac{5}{8}$	BC1621	10 $\frac{1}{2}$		4	BC2032	33		5	BC3040	37
	*2 $\frac{3}{4}$	BC1622	12		4 $\frac{1}{4}$	BC2034	40		5 $\frac{1}{2}$	BC3044	56
	2 $\frac{7}{8}$	BC1623	15		4 $\frac{1}{2}$	BC2036	47		6	BC3048	73
	3	BC1624	17 $\frac{1}{4}$		4 $\frac{3}{4}$	BC2038	54	4	5 $\frac{1}{2}$	BC3244	49
	3 $\frac{1}{4}$	BC1626	22 $\frac{1}{2}$		5	BC2040	60		6	BC3248	67
	3 $\frac{1}{2}$	BC1628	28		5 $\frac{1}{2}$	BC2044	80		6 $\frac{1}{2}$	BC3252	87
	3 $\frac{3}{4}$	BC1630	34		6	BC2048	100		7	BC3256	109
	4	BC1632	40	2 $\frac{5}{8}$	3 $\frac{1}{2}$	BC2128	18 $\frac{3}{4}$		7 $\frac{1}{2}$	BC3260	134
	4 $\frac{1}{2}$	BC1636	53 $\frac{1}{2}$		3 $\frac{3}{4}$	BC2130	25		8	BC3264	160
	5	BC1640	69		4	BC2132	30 $\frac{3}{4}$	4 $\frac{1}{4}$	5 $\frac{1}{2}$	BC3444	44
	5 $\frac{1}{2}$	BC1644	88	2 $\frac{3}{4}$	4 $\frac{1}{2}$	BC2136	42 $\frac{1}{4}$		6	BC3448	62
2 $\frac{1}{8}$	6	BC1648	107						6 $\frac{1}{2}$	BC3452	82
	*2 $\frac{5}{8}$	BC1721	9		3 $\frac{3}{4}$	BC2230	22 $\frac{1}{4}$	4 $\frac{1}{2}$	6	BC3648	55
	2 $\frac{3}{4}$	BC1722	11	2 $\frac{7}{8}$	4	BC2232	28		6 $\frac{1}{2}$	BC3652	75
	2 $\frac{7}{8}$	BC1723	13		4 $\frac{1}{4}$	BC2234	34 $\frac{1}{2}$		7	BC3656	97
	3	BC1724	15 $\frac{1}{2}$		4 $\frac{1}{2}$	BC2236	43	4 $\frac{3}{4}$	6	BC3848	46
	3 $\frac{1}{4}$	BC1726	21		4 $\frac{3}{4}$	BC2238	50		6 $\frac{1}{2}$	BC3852	67
	3 $\frac{1}{2}$	BC1728	26 $\frac{1}{2}$	3	4	BC2332	27		7	BC3856	89
2 $\frac{1}{4}$	3 $\frac{3}{4}$	BC1730	32 $\frac{1}{2}$		*3 $\frac{3}{4}$	BC2430	18	5	*6	BC4048	39
	*2 $\frac{3}{4}$	BC1822	9 $\frac{1}{4}$		*4	BC2432	24		6 $\frac{1}{2}$	BC4052	59
	2 $\frac{7}{8}$	BC1823	11 $\frac{1}{2}$		4 $\frac{1}{4}$	BC2434	30 $\frac{1}{2}$		7	BC4056	81
	*3	BC1824	14		4 $\frac{1}{2}$	BC2436	38		7 $\frac{1}{2}$	BC4060	104
	*3 $\frac{1}{8}$	BC1825	16 $\frac{1}{2}$		4 $\frac{3}{4}$	BC2438	45 $\frac{1}{2}$		8	BC4064	130
	3 $\frac{1}{4}$	BC1826	19	3 $\frac{1}{4}$	5	BC2440	54	5 $\frac{1}{4}$	9	BC4072	189
	3 $\frac{1}{2}$	BC1828	24 $\frac{1}{2}$		5 $\frac{1}{2}$	BC2444	70		7	BC4256	73
	3 $\frac{3}{4}$	BC1830	31		6	BC2448	89		7 $\frac{1}{2}$	BC4260	97
2 $\frac{3}{8}$	4	BC1832	36		6 $\frac{1}{2}$	BC2452	110	5 $\frac{1}{2}$	7 $\frac{1}{2}$	BC4460	91
	4 $\frac{1}{4}$	BC1834	42 $\frac{1}{2}$	3 $\frac{1}{2}$	4 $\frac{1}{4}$	BC2634	25 $\frac{1}{2}$		8	BC4464	113
	*2 $\frac{7}{8}$	BC1923	9 $\frac{1}{2}$		4 $\frac{1}{2}$	BC2636	32 $\frac{1}{2}$	5 $\frac{3}{4}$	7 $\frac{1}{2}$	BC4660	79
	3	BC1924	12 $\frac{1}{4}$		4 $\frac{3}{4}$	BC2638	40		8	BC4664	104
	3 $\frac{1}{4}$	BC1926	17		5	BC2640	48		8 $\frac{1}{2}$	BC4668	132
	3 $\frac{1}{2}$	BC1928	23	3 $\frac{1}{2}$	5 $\frac{1}{2}$	BC2644	64	6	8	BC4864	94
2 $\frac{1}{2}$	3 $\frac{3}{4}$	BC1930	28 $\frac{1}{2}$		4 $\frac{1}{2}$	BC2836	27 $\frac{1}{2}$		8 $\frac{1}{2}$	BC4868	122
	4	BC1932	35 $\frac{1}{2}$		4 $\frac{3}{4}$	BC2838	35		9	BC4872	151
	*3 $\frac{1}{8}$	BC2025	13		5	BC2840	43	6 $\frac{1}{2}$	9	BC5272	130
	*3 $\frac{1}{4}$	BC2026	15		5 $\frac{1}{2}$	BC2844	60		9	BC5672	108
	*3 $\frac{1}{2}$	BC2028	21		6	BC2848	80	7	9		

*Completely finished bearings, ready to install, with this I.D. and O.D. are available in various lengths.
See finished bushing section, page 294.

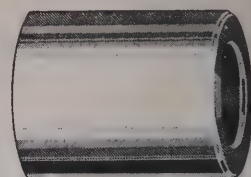
SOLID BRONZE BARS

Mach. O.D.	Part Number	Approx. Weight (Lbs.)	Mach. O.D.	Part Number	Approx. Weight (Lbs.)	Mach. O.D.	Part Number	Approx. Weight (Lbs.)
1 $\frac{1}{2}$	BS 4	1	2	BS16	13 $\frac{1}{2}$	4	BS32	52
5 $\frac{5}{8}$	BS 5	1 $\frac{1}{2}$	2 $\frac{1}{8}$	BS17	15	4 $\frac{1}{4}$	BS34	59
3 $\frac{3}{4}$	BS 6	2	2 $\frac{1}{4}$	BS18	17	4 $\frac{1}{2}$	BS36	66
7 $\frac{7}{8}$	BS 7	2 $\frac{3}{4}$	2 $\frac{3}{8}$	BS19	19	4 $\frac{3}{4}$	BS38	73
1	BS 8	3 $\frac{1}{2}$	2 $\frac{1}{2}$	BS20	21	5	BS40	81
1 $\frac{1}{8}$	BS 9	4 $\frac{1}{2}$	2 $\frac{5}{8}$	BS21	22 $\frac{1}{2}$		BS44	98
1 $\frac{1}{4}$	BS10	5 $\frac{1}{2}$	2 $\frac{3}{4}$	BS22	25	6	BS48	117
1 $\frac{3}{8}$	BS11	6 $\frac{1}{2}$	2 $\frac{7}{8}$	BS23	27		BS52	139
1 $\frac{1}{2}$	BS12	8	3	BS24	30	7	BS56	162
1 $\frac{5}{8}$	BS13	9		BS26	34	7 $\frac{1}{2}$	BS60	186
1 $\frac{3}{4}$	BS14	10 $\frac{1}{4}$		BS28	40	8		
1 $\frac{7}{8}$	BS15	11 $\frac{1}{2}$		BS30	45			

NEED HELP ON BEARINGS—CALL US



BUNTING CAST PHOSPHOR BRONZE SLEEVE BEARINGS



Bunting Standardized Bearings are made in hundreds of different sizes to meet practically every application required in machinery production and maintenance. They are completely machined, ready for assembly, and can also be furnished with oil grooves and drilled holes, cut to desired length, or graphited.

All stock bearings are made of Bunting No. 72 (S.A.E. 660) alloy, each chemical constituent of

which has been proved to have a definite function in imparting exceptional bearing qualities.

Sleeve bearings, if properly designed and lubricated, will operate with a low coefficient of friction. For that reason, careful thought should be given to bearing proportions, fits, oil holes, and grooves, because only when all of these factors are correctly considered can a film of oil be built up and maintained between journal and bearing.

INDUSTRIAL TYPE BEARINGS

COMPLETELY MACHINED

TOLERANCES

READY FOR ASSEMBLY

INSIDE DIAMETER

3" or less Plus or Minus .001"
Over 3" Plus or Minus .0015"

OUTSIDE DIAMETER

3" or less Plus .002" to .003"
Over 3" Plus .003" to .005"

ALL LENGTHS—PLUS OR MINUS .005"

PROGRESSIVE SIZE LISTING

Inside Diam.	Outside Diam.	Length	Part Number	Inside Diam.	Outside Diam.	Length	Part Number	Inside Diam.	Outside Diam.	Length	Part Number
3/16	5/16	1/2	A1	3/8	5/8	1 1/4	BA9	1/2	5/8	2	C17
		3/4	AA1	Cont'd.		1 1/2	CA9	Cont'd.		2 1/4	C18
		1	AB1	7/16	9/16	1	BA7	1/2	11/16	3/4	B22
1/4	3/8	3/4	AC1			1 1/4	B7			1	C24
		1	AD1			1 1/2	BC7			1 1/4	C36
		1 1/4	A2			1 9/16	B8			1 1/2	C37
						1 3/4	C10			1 3/4	C38
1/4	7/16	3/4	AA2	7/16	5/8	1	BB7			2	D39
		1	B2			1 1/4	C9			2 1/4	D40
		1 1/4	BA2			1 1/2	CB9			2 1/2	D41
						2	CB10	1/2	3/4	3/4	C67
5/16	7/16	3/4	A3	7/16	11/16	1 1/2	C30			1	C68
		1	AA3							1 1/4	C69
		1 1/4	A4	7/16	3/4	1	CC10			1 1/2	DA70
5/16	1/2	3/4	B3			1 1/4	D66			1 3/4	D71
		1	B5			1 1/2	DD66			2	D72
		1 1/4	BA6	7/16	13/16	1 1/2	D12			2 1/4	D73
3/8	1/2	3/4	AC2							2 1/2	D74
		1	AC3	1/2	5/8	5/8	BA13	1/2	13/16	1	C78
		1 1/4	BA4			3/4	BC13			1 1/2	D80
		1 1/2	BC4			7/8	BD13			2 1/4	E112
3/8	9/16	3/4	BB3			1	BB13	1/2	7/8	1	D140
		1	B4			1 1/4	B14			1 1/4	D143
		1 1/4	B6			1 3/8	BB14			1 1/2	D147
3/8	5/8	3/4	BC3			1 1/2	B16			1 3/4	E148
Cont'd. next Col.		1	BB4	Cont'd. next Col.		1 3/4	C16			2	E149

NEED HELP ON BEARINGS—CALL US

BUNTING INDUSTRIAL TYPE BEARINGS—Continued

Inside Diam.	Outside Diam.	Length	Part Number	Inside Diam.	Outside Diam.	Length	Part Number	Inside Diam.	Outside Diam.	Length	Part Number
1/2	1	1	D232	5/8	7/8	2	D171	3/4	7/8	13/4	CC180
		1 1/2	E232	Cont'd.		2 1/4	E172	Cont'd.		2	D181
		2	E233			2 1/2	E173			2 1/4	D010
		2 1/4	F235			3	E175			2 1/2	DB184
9/16	11/16	1	BB45	5/8	15/16	1	D204	3/4	15/16	1	C222
		1 1/4	BC45			1 1/2	D203			1 1/4	C223
		1 1/2	CD48			2	E205			1 3/8	CA233
		1 3/4	C49			2 1/2	E206			1 1/2	D224
		2	C50							1 3/4	D225
		2 1/4	C51	5/8	1	1	DA234			2	D226
		2 1/2	C53			1 1/2	E235			2 1/4	D227
						2	E236			2 1/2	D228
9/16	3/4	1	C76			2 1/4	E238			2 3/4	E229
		1 1/4	C80			2 1/2	E239			3	E230
		1 1/2	C81			3	F241				
		1 3/4	D82	5/8	1-1/8	1 1/2	E320	3/4	1	3/4	C250
		2	D83			2	F323			1	D251
		2 1/4	D84			2 1/4	F324			1 1/8	DD251
		2 1/2	D85							1 1/4	D252
9/16	13/16	1	C110	11/16	13/16	1	B119			1 3/8	DH252
		1 1/4	D113			1 1/4	C120			1 1/2	D253
		1 1/2	DA114			1 1/2	C121			1 3/4	D254
		1 3/4	D115			1 3/4	C137			2	E255
		2	D116			2	C138			2 1/8	EH255
		2 1/2	E118			2 1/2	C142			2 1/4	E256
9/16	7/8	1	D150	11/16	7/8	1	C175			2 1/2	E257
		1 1/2	D153			1 1/4	C176			2 3/4	E258
		2	E154			1 1/2	C177			3	E259
5/8	3/4	1	B90			1 3/4	D180			3 1/2	E260
		1 1/8	BD90			2	D182	3/4	1-1/16	1	D284
		1 1/4	B91			2 1/4	D183			1 1/2	E285
		1 1/2	C91			2 1/2	D184			2	E287
		1 3/4	C93	11/16	15/16	1	DA212			2 1/4	E288
		2	C94			1 1/4	D213			2 1/2	E291
		2 1/4	C95			1 1/2	DB214			3	F294
		2 1/2	C98			1 3/4	D214	3/4	1-1/8	1	D321
5/8	13/16	1	C123			2	D215			1 1/2	E322
		1 1/4	C124			2 1/4	E216			2	E325
		1 1/2	C125			2 1/2	E217			2 1/4	E326
		1 3/4	D126	11/16	1	1 1/4	D242			2 1/2	F327
		2	D127			1 3/4	E242			3	F329
		2 1/4	D128			2	EA242	3/4	1-3/16	1 1/2	E332
		2 1/2	D129			2 1/4	E243			2	D333
5/8	7/8	3/4	C165			2 1/2	E244			2 1/2	F011
		1	C167			3	E246	3/4	1-1/4	1 3/4	FA434
		1 1/8	CB167	3/4	7/8	3/4	AB187			2	FC434
		1 1/4	D168			1	BB187			2 1/4	F434
		1 1/2	D169			1 1/4	CB252			2 1/2	FD434
		1 3/4	D170	Cont'd. next Col.		1 1/2	C179			3	G434

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BUNTING INDUSTRIAL TYPE BEARINGS—Continued

Inside Diam.	Outside Diam.	Length	Part Number	Inside Diam.	Outside Diam.	Length	Part Number	Inside Diam.	Outside Diam.	Length	Part Number
13/16	15/16	1	C232	7/8	1-1/8	3 1/4	E355	1	1-3/16	1 3/4	D419
		1 1/4	CB233	Cont'd.		3 1/2	F356	Cont'd.		2	E420
		1 1/2	CA234							2 1/2	E422
		2	CB234	7/8	1-3/16	1	D384	1	1-1/4	3/4	D460
						1 1/4	D385			1	D461
13/16	1	1 1/2	D263			1 1/2	E387			1 1/8	DD461
		1 3/4	D264			2	E392			1 1/4	D462
		2	D266			2 1/2	E394			1 3/8	DD462
		2 1/2	D267			3	F398			1 1/2	E463
13/16	1-1/16	1 1/2	DC299	7/8	1-1/4	1 1/2	E431			1 5/8	EB463
		2	E301			1 3/4	E434			1 3/4	E464
		2 1/2	E303			2	E435			2	E465
		2 3/4	E304			2 1/4	F436			2 1/4	E466
		3	E305			2 1/2	F438			2 1/2	E467
13/16	1-1/8	1 1/2	E335			3	F439			2 3/4	E468
		2	E337			3 1/2	F442			3	F469
13/16	1-3/16	2 1/2	F383	7/8	1-3/8	1 1/2	E567			3 1/2	F471
		3	F385			1 3/4	F569			3 3/4	F472
						2	F570			4	F473
13/16	1-1/4	1 1/2	EA433			2 1/2	F575			4 1/2	F474
		2 1/2	FA435			3	G578	1	1-5/16	1 1/2	E524
13/16	1-5/16	2	F510	15/16	1-1/8	1 1/2	D362			2	E525
		2 1/2	F512			2	D364			2 1/4	E526
		3	G514			2 1/2	E366			2 1/2	F527
7/8	1	1	DB272	15/16	1-3/16	1 1/4	D403			3	F528
		1 1/4	C274			1 1/2	D404			3 1/2	F531
		1 3/8	CD274			2	E406			3 3/4	F532
		1 1/2	CE274			2 1/4	E407	1	1-3/8	1	E595
		1 5/8	CF274			2 1/2	E408			1 1/4	E597
		2	DA277			3	E412			1 1/2	E598
7/8	1-1/16	1	C309	15/16	1-1/4	1	D446			1 3/4	E599
		1 1/4	D310			1 1/2	E448			2	F600
		1 1/2	D311			2	E450			2 1/2	F602
		1 3/4	DA311			2 1/2	F452			2 3/4	F603
		2	D313			2 3/4	F453			3	F604
		2 1/4	E314	15/16	1-5/16	1 1/2	E519			3 1/4	F605
		2 1/2	E315			1 3/4	E520			3 1/2	G606
		2 3/4	E316			2	F521			4	G609
		3	E317			2 1/2	F523			4 1/2	G612
						3	F525	1	1-1/2	1 1/2	F760
7/8	1-1/8	3/4	C345	1	1-1/8	1 3/8	C372			1 3/4	F763
		1	D346			1 1/2	C373			2	F766
		1 1/4	D347			1 3/4	D374			2 1/2	G770
		1 3/8	DA347			2	D375			3	G772
		1 1/2	D348			2 1/2	D377			4	H775
		1 3/4	E349					1	1-5/8	2	G940
		2	E350							2 1/2	G942
		2 1/4	E351	1	1-3/16	7/8	CB415			3	H944
		2 1/2	E352			1 1/4	D416			3 1/2	H946
Cont'd. next Col.		3	E354			1 1/2	D417				
				Cont'd. next Col.							

NEED HELP ON BEARINGS—CALL US

BUNTING INDUSTRIAL TYPE BEARINGS—Continued

Inside Diam.	Outside Diam.	Length	Part Number	Inside Diam.	Outside Diam.	Length	Part Number	Inside Diam.	Outside Diam.	Length	Part Number
1	1-3/4	6 1/2	I-1181	1-1/8	1-5/8	3 1/2	HA986	1-1/4	1-1/2	4 1/4	G849
1	2	3	H1594	Cont'd.		4	H987	Cont'd.		4 1/2	G850
		6 1/2	I-1597			4 1/2	H990			5	G851
										5 1/2	GA852
1-1/16	1-5/16	1 1/2	E538	1-1/8	1-7/8	6 1/2	I-1360	1-1/4	1-9/16	2	F929
		2	E539	1-1/8	2	3	H1592			2 1/2	F931
		2 1/2	E542			5 1/2	I-1600			3	F932
		3	F544							3 1/2	G934
		3 1/2	F546	1-3/16	1-3/8	1 3/4	D645			3 3/4	G937
1-1/16	1-3/8	2	E620			2	E647	1-1/4	1-5/8	1 3/4	F1016
		2 1/2	F622			2 1/2	E650			2	F1017
1-1/16	1-7/16	2 1/2	F698	1-3/16	1-7/16	1 1/4	D729			2 1/2	F1019
		3	F700			1 1/2	E730			3	G1021
		4	G704			2	E732			3 1/4	GA1021
1-1/16	1-9/16	2 1/2	G903			2 1/2	E734			3 1/2	G1023
		3	G905			3	F736			4	H1025
		3 1/2	H907			3 1/2	F738			4 1/2	H1027
1-1/8	1-1/4	1 1/2	C480	1-3/16	1-1/2	2	F822			4 3/4	H1028
		1 3/4	D482			3	F826	1-1/4	1-11/16	2	F1102
		2	D484			4	G830			2 1/2	G1104
1-1/8	1-5/16	2 1/4	E556	1-3/16	1-9/16	1 1/2	E910			3 1/4	H1108
		2 1/2	E557			2 1/2	F914			3 1/2	H1112
1-1/8	1-3/8	1	D625			3	G916	1-1/4	1-3/4	1 3/4	F1190
		1 1/4	D626			3 1/2	G920			2	G1191
		1 1/2	E628	1-3/16	1-5/8	2	F1000			2 1/4	G1192
		1 3/4	E629			2 1/2	G1002			2 1/2	G1193
		2	E630			3	G1004			2 3/4	H1194
		2 1/4	E631	1-3/16	1-11/16	2	G1085			3	H1195
		2 1/2	E632			2 1/2	G1087			3 1/2	H1197
		3	F634			3	H1089			3 3/4	H1198
		3 1/4	F635			3 1/2	H1093			4	H1199
		3 1/2	F636	1-1/4	1-7/16	2 1/2	E750			5	H1203
		4	F640			3	E754	1-1/4	1-7/8	2	G1364
1-1/8	1-7/16	1 1/2	E712	1-1/4	1-1/2	1	D834			2 1/2	H1366
		2 1/2	F717			1 1/8	D836			3	H1368
		3	F721			1 1/4	D835			4	H1369
		3 1/2	F725			1 3/8	E837	1-1/4	2	3	H1593
1-1/8	1-1/2	1 1/2	E802			1 1/2	E838			4	H1595
		2	F804			1 5/8	E839			6 1/2	I-1602
		2 1/2	F806			1 3/4	EA839	1-5/16	1-7/16	1 3/4	D755
		3	G808			2	E840			2	D756
		3 1/2	G811			2 1/4	E841	1-5/16	1-1/2	1 3/4	E852
		4	G812			2 1/2	F842			3	E853
1-1/8	1-5/8	1 3/4	F982			2 3/4	F843	1-5/16	1-9/16	3	FA938
		2	F983			3	F844			3 1/2	FB938
		2 1/2	G985			3 1/4	F845			4	G939
		3	G986			3 1/2	F846				
Cont'd. next Col.						4	F848				
				Cont'd. next Col.							

NEED HELP ON BEARINGS—CALL US

BUNTING INDUSTRIAL TYPE BEARINGS—Continued

Inside Diam.	Outside Diam.	Length	Part Number	Inside Diam.	Outside Diam.	Length	Part Number	Inside Diam.	Outside Diam.	Length	Part Number
1-5/16	1-5/8	2	F1033	1-7/16	1-3/4	2 1/4	F1255	1-1/2	2	3 1/2	H1617
		2 1/2	F1036			3	G1258	Cont'd.		4	H1619
		3	F1038			4	G1262			4 1/2	H1621
		4	G1041							5	H1623
		4 3/4	H1045	1-7/16	1-13/16	3	G1342	1-1/2	2-1/8	3	H1898
						3 1/4	G1343			4	H1899
1-5/16	1-11/16	2 1/2	F1160			3 1/2	H1344				
		3	G1163			4	H1346				
		3 1/2	G1164			4 1/4	H1347	1-1/2	2-1/4	3	H2203
		4	H1166			5	H1349			4	H2206
										5	I-2209
1-5/16	1-13/16	3	H1286	1-7/16	1-7/8	3	H1439			6 1/2	I-2212
		3 1/2	H1288			4	HA1439				
		4	H1290			4 1/4	H1440				
						4 1/2	H1441				
1-5/16	1-7/8	3 1/2	H1428			5	H1443				
		4 1/2	H1432								
				1-7/16	1-15/16	2	G1506	1-9/16	1-13/16	3	FA1366
1-3/8	1-1/2	1 3/4	DA853			3	H1510			3 1/2	G1367
		2	D854			3 1/2	H1512			4	G1370
		2 1/2	E858			4	H1514				
1-3/8	1-5/8	2	E1051			4 1/2	H1516				
		3	F1055			5	H1518				
		3 1/4	F1056			5 1/2	H1520				
		3 1/2	F1057								
		4	G1059	1-7/16	2	4	H1609	1-5/8	1-7/8	2 1/4	F1486
		4 1/2	G1061							3	F1490
1-3/8	1-11/16	3 1/2	G1178	1-1/2	1-5/8	2	D1078			3 3/4	G1492
1-3/8	1-3/4	2	F1233	1-1/2	1-11/16	2 3/4	E1168	1-5/8	1-15/16	2 1/4	F1570
		2 1/4	F1234								
		2 1/2	G1235	1-1/2	1-3/4	1 3/4	E1274	1-5/8	2	1 3/4	F1652
		3	G1237			2	E1275			2 1/2	G1655
		3 1/2	H1239			2 1/4	F1276			3	G1657
		4	H1241			2 1/2	F1277			3 1/2	H1659
						3	F1279			4	H1661
1-3/8	1-7/8	3	H1433			3 1/2	F1281			4 1/2	H1663
		3 1/2	H1434			4	G1283			5	H1665
		4	H1436			4 1/2	G1284			5 1/2	H1667
		4 1/2	H1438			5	G1285	1-5/8	2-1/8	3	H1904
						5 1/2	H1285			4	H1908
1-3/8	2	3	H1605	1-1/2	1-13/16	3	G1363			4 1/2	H1910
		4	H1607	1-1/2	1-7/8	2	F1444			5	H1912
1-3/8	2-1/8	6 1/2	I-1894			2 1/2	G1445	1-11/16	1-15/16	3	F1587
1-7/16	1-5/8	1 3/4	E1067			2 3/4	G1446			3 1/2	G1591
		2 3/4	E1071			3	G1447				
		3	F1073			3 1/2	H1449	1-11/16	2	3 1/2	G1633
						4	H1451			4 1/2	H1640
1-7/16	1-11/16	2 1/2	F1155			4 1/2	H1453				
		3	F1157			5	H1455	1-11/16	2-1/16	3	H1789
		3 1/2	F1159			5 1/2	H1457			3 1/2	H1791
		4	G1161	1-1/2	2	2 1/2	H1613			4	H1793
		4 1/4	G1162	Cont'd. next Col.		3	H1615			4 1/2	H1795
										5	H1797
										5 1/2	H1799

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BUNTING INDUSTRIAL TYPE BEARINGS—Continued

Inside Diam.	Outside Diam.	Length	Part Number	Inside Diam.	Outside Diam.	Length	Part Number	Inside Diam.	Outside Diam.	Length	Part Number
1-11/16	2-3/16	2	G2084	1-7/8	2-1/4	4	H2307	2-1/8	2-1/2	3	H3228
		2 1/2	H2086	Cont'd.		5	H2311			4	H3231
		3	H2088	1-7/8	2-3/8	3	H2642	2-1/8	2-5/8	4	H3725
		3 1/2	H2090			4	H2646			5	H3729
		4	H2092			5 1/4	H2687			6	I-3736
		4 1/2	H2094	1-15/16	2-3/16	2	F2176	2-3/16	2-5/8	4	H3745
		5	H2095			3	G2180			5	H3748
		5 1/2	H2096			4	H2184	2-3/16	2-11/16	3 1/2	H4013
1-11/16	2-1/4	3	H2230	1-15/16	2-1/4	3	G2328			4	H4015
		4 1/2	H2234			4 1/2	H2334			4 1/2	H4017
1-3/4	2	2 1/4	F1696	1-15/16	2-5/16	3 1/2	H2505			5	H4020
		2 1/2	F1697			4	H2507	2-3/16	2-3/4	4 1/2	I-4307
		3	F1699			5	H2511			5 1/4	I-4310
		4	G1702			5 1/2	H2513			6	I-4320
		4 1/2	H1705			6 1/4	H2516	2-3/16	2-7/8	4 1/2	I-4381
		5 1/4	H1721	1-15/16	2-3/8	3	H2693	2-1/4	2-1/2	3 1/2	H3235
1-3/4	2-1/16	3 1/2	H1814			4	H2695			4	H3237
1-3/4	2-1/8	2 3/4	G1949			5 1/2	H2698	2-1/4	2-5/8	3	H3752
		3 1/4	H1951	1-15/16	2-7/16	3	H2929			4	H3756
		3 1/2	H1952			4	H2933			5	H3760
		4	H1954			5	H2937	2-1/4	2-11/16	4 3/4	H4029
		4 1/4	H1955			5 1/2	H2939	2-1/4	2-3/4	3 1/2	H4330
		5	H1958	1-15/16	2-1/2	3	H3146			4	H4334
		5 1/2	H1960			5	I-3151			4 1/2	H4336
1-3/4	2-1/4	1 3/4	G2248	2	2-1/4	2	F2349			5	I-4338
		2	G2249			2 1/2	F2351			6	I-4342
		2 1/2	H2250			3	G2353			6 1/2	I-4344
		3	H2252			3 1/2	G2355	2-1/4	3	3 1/2	I-5695
		3 1/2	H2255			3 3/4	G2356			5	I-5702
		4	H2257			4	H2357	2-1/4	3-1/8	6 1/2	I-5761
		4 1/4	H2258			4 1/2	H2359	2-3/8	2-3/4	4	H4361
		5	H2261			5	H2361			5	H4363
1-3/4	2-3/8	3 1/2	H2630	2	2-3/8	3	H2705			6	H4370
		4 1/2	H2634			3 1/2	H2730	2-3/8	2-7/8	4	H5001
		5	I-2636			4	H2732			5	I-5005
1-3/4	2-1/2	6 1/2	I-3110			4 1/2	H2734			6	I-5009
1-13/16	2-3/16	4	H2140	2	2-1/2	2 1/2	H3168	2-7/16	2-3/4	4	H4372
		5 1/4	H2143			3	H3170			5	H4375
1-13/16	2-5/16	4	H2402			3 1/2	H3172			4	H5018
		5	H2404			4	H3174			5	H5027
1-7/8	2-1/8	2 1/2	F1994			4 1/2	H3176	2-7/16	2-7/8	3	H5349
		3	G1996			5	H3178			4	I-5353
		4	G2000			5 1/2	I-3180			5	I-5358
						6	I-3187	2-7/16	2-15/16	4	
1-7/8	2-1/4	3	H2302	2	2-5/8	4	H3200			5	
Cont'd. next Col.		3 1/4	H2304	2	2-3/4	6 1/2	I-4300			6 1/4	

NEED HELP ON BEARINGS—CALL US

BUNTING INDUSTRIAL TYPE BEARINGS—Continued**PROGRESSIVE SIZE LISTING (Continued)**

Inside Diam.	Outside Diam.	Length	Part Number	Inside Diam.	Outside Diam.	Length	Part Number	Inside Diam.	Outside Diam.	Length	Part Number
2-7/16	3	3 ³ / ₄	H-5714	2-3/4	3-1/4	4	H-6190	3-1/2	4-1/8	6	I-7590
		5	K-5717			5	I-6194	3-1/2	4-1/4	4 ¹ / ₂	I-7671
		6 ¹ / ₄	I-5720			6	I-6198			7	I-7678
2-1/2	2-3/4	4	H-4382			7	I-6202			9 ³ / ₄	I-7682
		5	H-4386	2-3/4	3-3/8	4	I-6384	3-3/4	4-1/4	5	I-7697
2-1/2	2-7/8	3 ³ / ₄	H-5038			6 ¹ / ₂	I-6392			7	K-7702
		4 ¹ / ₂	H-5042	2-3/4	3-1/2	6 ¹ / ₂	I-6573	3-3/4	4-1/2	6 ¹ / ₂	I-7711
2-1/2	3	4	H-5726	2-7/8	3-3/8	4	K-6400	4	4-1/2	4	I-8191
		5	I-5730			6	K-6405			6	I-8198
		6	I-5734			8	I-6409			7	I-8203
		7	I-5738	2-7/8	3-1/2	4 ¹ / ₂	I-6576	4	4-3/4	5	I-9000
2-1/2	3-1/8	3 ¹ / ₂	H-5767			6 ³ / ₄	I-6587			6	I-9002
		4	K-5770	2-15/16	3-7/16	3 ¹ / ₂	H-6451			7	I-9004
		4 ¹ / ₂	K-5772			5	K-6468	4	5	5	I-9100
		6 ³ / ₄	I-5778			6 ¹ / ₂	I-6472			6	I-9102
2-1/2	3-1/4	4	I-6150	3	3-3/8	4 ¹ / ₂	H-6415			7	I-9104
		5	I-6154			8	I-6422	4-1/4	4-3/4	5	I-9200
		6	I-6158	3	3-1/2	4 ¹ / ₂	I-6598			6	I-9202
		7 ¹ / ₄	I-6171			6	I-6604			7	I-9204
2-1/2	3-1/2	6 ¹ / ₂	I-6570			9	IA-6612	4-1/4	5	5	I-9300
2-5/8	3	3	H-5745	3	3-5/8	5	I-6774			6	I-9302
		4	H-5752			6 ¹ / ₂	K-6782			7	I-9304
		5	H-5756			8	I-6786	4-1/2	5	6	I-9400
2-5/8	3-1/8	5	I-5781	3	3-3/4	6 ¹ / ₄	I-6941			7	I-9402
		6	K-5786			6 ¹ / ₂	I-7310			8	I-9404
		7 ¹ / ₄	I-5789	3-1/4	3-1/2	4	H-6620	4-1/2	5-1/2	6	I-9600
2-5/8	3-1/4	7	I-6182			5	I-7006			7	I-9602
2-5/8	3-3/8	6 ¹ / ₂	I-6288	3-1/4	3-3/4	6	I-7010			8	I-9604
2-11/16	3-3/16	4	HA-5987			9	I-7025	5	5-1/2	6	I-9800
		5	I-5991	3-7/16	3-15/16	4 ¹ / ₂	K-7015			7	I-9802
		6 ¹ / ₄	IA-5996			6 ¹ / ₂	K-7020			8	I-9804
2-3/4	3-1/8	4	H-5798	3-1/2	4	5 ¹ / ₂	I-7414	5	6	7	I-9900
		5	H-5807			7	I-7428			8	I-9902
		6	I-5810							9	I-9904

BUNTING BRONZE BEARING INSTALLATION

Recommended Press Fits and Running Clearances for Average Conditions				
Nominal Bearing I.D. and O.D.	Nominal Bearing O.D. Limits	Nominal Housing Bore Limits	Resultant Press Fit	Minimum Diametral Running Clearances
— to 1/2"	+ .002 to + .003	+ .001 to + .0015	.0005 to .002	.001
1/2" to 1"	+ .002 to + .003	+ .000 to + .001	.001 to .003	.001
1" to 1 1/2"	+ .002 to + .003	— .0005 to + .0005	.0015 to .0035	.0015
1 1/2" to 2"	+ .002 to + .003	— .0005 to + .0005	.0015 to .0035	.002
2" to 2 1/2"	+ .002 to + .003	— .001 to + .000	.002 to .004	.0025
2 1/2" to 3"	+ .002 to + .003	— .0015 to — .0005	.0025 to .0045	.003
3" to 4"	+ .003 to + .005	— .0005 to + .0005	.0025 to .0055	.0035
4" to 5"	+ .003 to + .005	— .0015 to — .0005	.0035 to .0065	.004

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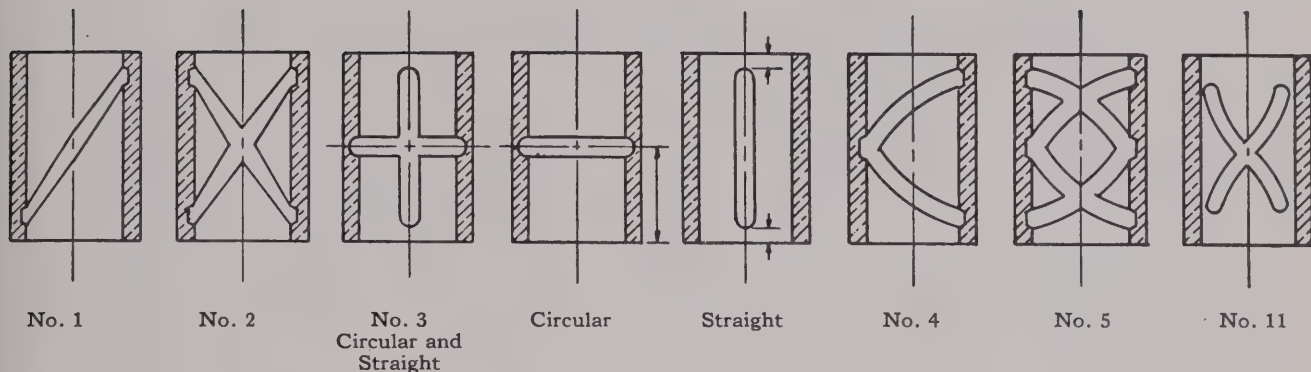
BUNTING GROOVED BEARINGS

In bearings which are small in diameter, or short in length, grooving is usually unnecessary and all that is needed is to provide an oil hole in the unloaded zone through which oil can be fed to the bearing.

Where grooving is necessary a good general rule is

that the simplest groove is also the best groove. In a majority of applications the best groove is a straight groove in the unloaded zone supplied with oil through an oil hole at the longitudinal center of the bearing and with the groove itself stopping short of the ends.

TYPES OF STANDARD OIL GROOVES



Standard grooves are $\frac{1}{8}$ " wide, $\frac{1}{16}$ " deep running to $\frac{1}{8}$ " from each end. If not otherwise specified, standard grooves will be inserted. Grooves may be any specified width or depth and run out one or both ends.

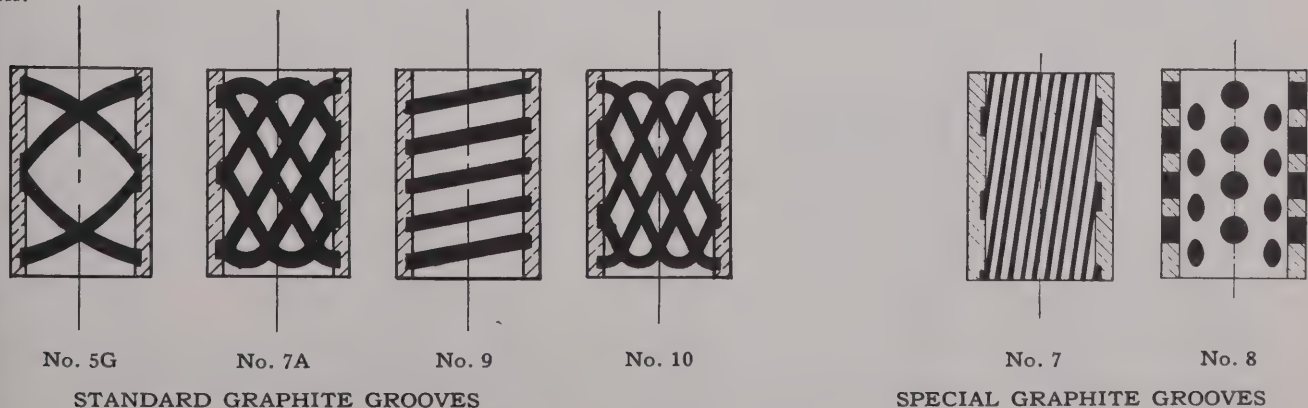
When oil holes are required, show size and location.

In addition to the standard grooves illustrated, special forms of grooves from the simplest to the most complex can be supplied.

GRAPHITED BEARINGS

There are many applications in which Bunting Graphited Bearings give superior service but there are also limitations to the use of this type of bearing. Their application should be confined to those jobs for which they are particularly suited. Their use is recommended where the location is inaccessible for regular lubrication.

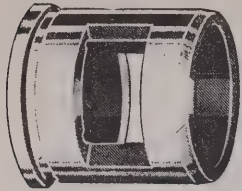
They are especially useful where high operating temperature is encountered. Other unusual conditions such as underwater, where dripping oil is not tolerated, extreme low operating temperature, product spoilage by lubricant as in the textile and food industries will dictate the use of Graphited Oil-Less Bearings.



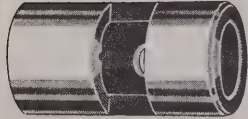
STANDARD GRAPHITE GROOVES

SPECIAL GRAPHITE GROOVES

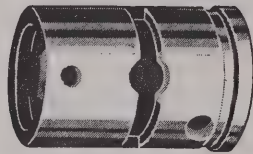
The amount of graphite grooving required depends upon the bore size and bearing length. Our engineering department will be pleased to make grooving recommendations for your designs.



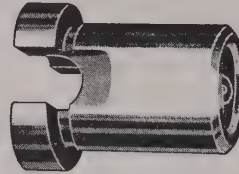
EL-122



EL-209



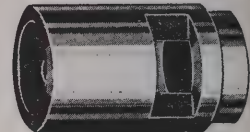
EL-203



EL-125



EL-65



EL-39

BUNTING
CAST PHOSPHOR BRONZE
ELECTRIC MOTOR BEARINGS
COMPLETELY MACHINED—READY FOR ASSEMBLY

PROGRESSIVE LISTING—STANDARDIZED STOCK SIZES

INSIDE DIAMETER		OUTSIDE DIAMETER		LENGTH	FLANGE	MOTOR	BUNTING PART No.
Nominal	Decimal	Nominal	Decimal				
1/4.....	.250	9/16....	.5625	11/16		G. E. Fan	EL-133
1/4.....	.250	19/32...	.593	7/8		G. E. Fan	EL-132
9/32.....	.280	3/8.....	.370	1		Delco	EL-288
5/16.....	.3125	1/2.....	.5015	3/4		Peerless	EL-137
5/16.....	.3125	1/2.....	.5025	3/4	9/16 x 1/32	G. E.	EL-89
3/8.....	.375	29/64...	.4485	25/32		Wagner	EL-305
3/8.....	.375	1/2.....	.5015	9/16		G. E.	EL-262
3/8.....	.3732	1/2.....	.500	51/64	35/64 x 1/32	G. E. Fan	EL-246
3/8.....	.375	9/16....	.564	3/4		G. E.	EL-261
3/8.....	.375	9/16....	.5635	1		R. & M.	EL-98
3/8.....	.375	9/16....	.5635	1		Ohio	EL-82
3/8.....	.3745	9/16....	.5625	1-1/16		Emerson	EL-209
3/8.....	.375	9/16....	.5625	1-1/4		Emerson	EL-158
3/8.....	.3745	5/8.....	.626	3/4		R. & M.	EL-99
3/8.....	.375	5/8.....	.626	3/4		Ohio	EL-83
3/8.....	.373	5/8.....	.6265	3/4	11/16 x 1/16	G. E. Fan	EL-131
3/8.....	.375	5/8.....	.627	7/8		Peerless	EL-136
3/8.....	.373	3/4.....	.750	1		G. E. Fan	EL-130
7/16.....	.432	9/16....	.5625	13/16		Emerson	EL-289
7/16.....	.432	5/8.....	.620	1-1/32		Emerson	EL-113
7/16.....	.432	5/8.....	.620	1-1/16		Emerson	EL-114
31/64....	.490	19/32...	.5895	15/16		Delco	EL-156X
31/64....	.490	5/8.....	.622	1		Sunlight	EL-77X
31/64....	.490	5/8.....	.6275	1		Westghse.	EL-220X
31/64....	.490	5/8.....	.6275	1-1/16		G. E.	EL-236X
31/64....	.490	5/8.....	.627	1-1/4		G. E.	EL-157X
31/64....	.490	11/16...	.689	1-1/4		G. E.	EL-5X
31/64....	.490	3/4.....	.752	1-3/16		G. E.	EL-12X
1/2.....	.500	19/32...	.5895	15/16		Delco	EL-156
1/2.....	.500	5/8.....	.6265	3/4		G. E.	EL-295
1/2.....	.500	5/8.....	.6275	15/16		J. & H.	EL-286
1/2.....	.500	5/8.....	.6285	63/64		Westghse.	EL-309
1/2.....	.4997	5/8.....	.6275	1		Westghse.	EL-220
1/2.....	.500	5/8.....	.6185	1		Emerson	EL-291
1/2.....	.500	5/8.....	.622	1		Sunlight	EL-77
1/2.....	.500	5/8.....	.6265	1-3/64		G. E.	EL-238
1/2.....	.500	5/8.....	.6275	1-1/16		G. E.	EL-236
1/2.....	.500	5/8.....	.621	1-3/16		Emerson	EL-200
1/2.....	.500	5/8.....	.627	1-1/4		G. E.	EL-157
1/2.....	.500	11/16...	.6895	13/16	23/32 x 1/16	Century	EL-56
1/2.....	.500	11/16...	.689	1		G. E.	EL-222
1/2.....	.500	11/16...	.689	1		G. E.	EL-72
1/2.....	.500	11/16...	.689	1		G. E.	EL-260
1/2.....	.500	11/16...	.689	1-1/4		G. E.	EL-5
1/2.....	.500	11/16...	.690	1-1/4	23/32 x 1/16	Century	EL-29
1/2.....	.500	11/16...	.690	1-1/4	23/32 x 1/16	Century	EL-7
1/2.....	.4997	45/64...	.705	1-1/16		Westghse.	EL-221
1/2.....	.500	45/64...	.705	1-7/32		Westghse.	EL-15
1/2.....	.500	3/4.....	.7525	1		Westghse.	EL-161
1/2.....	.500	3/4.....	.752	1		Westghse.	EL-41
1/2.....	.500	3/4.....	.751	1		R. & M.	EL-100
1/2.....	.500	3/4.....	.751	1		R. & M.	EL-101

NEED HELP ON BEARINGS—CALL US

BUNTING ELECTRIC MOTOR BEARINGS—Continued

INSIDE DIAMETER		OUTSIDE DIAMETER		LENGTH	FLANGE	MOTOR	BUNTING PART No.
Nominal	Decimal	Nominal	Decimal				
1/2.....	.500	3/4.....	.751	1		R. & M.	EL-102
1/2.....	.500	3/4.....	.751	1-1/16		Ohio	EL-124
1/2.....	.500	3/4.....	.7445	1-11/64		Emerson	EL-111
1/2.....	.500	3/4.....	.752	1-3/16		G. E.	EL-12
1/2.....	.500	3/4.....	.751	1-3/16	1 x 1/4	Ohio	EL-125
1/2.....	.500	3/4.....	.752	1-1/4		Westghse.	EL-43
1/2.....	.500	3/4.....	.752	1-1/4	13/16 x 1/8	G. E.	EL-87
1/2.....	.500	3/4.....	.7515	1-1/4		G. E.	EL-90
1/2.....	.500	3/4.....	.751	1-1/4		Ohio	EL-109
1/2.....	.500	3/4.....	.744	1-11/32		Emerson	EL-112
1/2.....	.500	3/4.....	.751	1-21/32		Ohio	EL-110
1/2.....	.500	1.....	1.000	1-9/32		Master	EL-45
17/32....	.531	21/32....	.6385	49/64		Wagner	EL-304
17/32....	.531	21/32....	.6585	13/16		Wagner	EL-306
17/32....	.531	43/64....	.6642	1		Wagner	EL-134
17/32....	.530	45/64....	.7055	1		Wagner	EL-160
9/16.....	.5625	43/64....	.677	7/8		B.-B.	EL-223
9/16.....	.5625	13/16....	.815	1		Wagner	EL-105
9/16.....	.5627	13/16....	.813	1-1/8	29/32 x 3/32	B.-B.	EL-80
39/64....	.615	3/4.....	.7445	15/16		Del.-Sun.	EL-17X
39/64....	.615	3/4.....	.7525	1-1/16		G. E.; West.	EL-237X
39/64....	.615	3/4.....	.7445	1-3/16		Delco	EL-81X
39/64....	.615	3/4.....	.7517	1-1/4		G. E.	EL-210X
39/64....	.613	13/16....	.815	31/32	63/64 x 3/32	Delco	EL-13X
39/64....	.615	7/8.....	.877	1-1/4		Apex, Mara.	
						Peer. Sun.	EL-26X
5/8.....	.627	3/4.....	.7525	11/16		Apex.	EL-247
5/8.....	.630	3/4.....	.755	7/8		B.-B.	EL-224
5/8.....	.625	3/4.....	.7445	15/16		Del. & Sun.	EL-17
5/8.....	.625	3/4.....	.747	1		Sunlight	EL-240
5/8.....	.625	3/4.....	.7525	1-1/16		Westghse.	EL-308
5/8.....	.625	3/4.....	.7525	1		Wagner	EL-307
5/8.....	.625	3/4.....	.7525	1-1/16		G. E.; West.	EL-237
5/8.....	.625	3/4.....	.7525	1-3/16		Emerson	EL-230
5/8.....	.625	3/4.....	.7445	1-3/16		Delco	EL-81
5/8.....	.625	3/4.....	.7517	1-1/4		G. E.	EL-210
5/8.....	.625	3/4.....	.748	1-1/4		Mara.	EL-274
5/8.....	.625	3/4.....	.752	1-9/32		Master	EL-199
.669.....	.670	.784.....	.7835	1.281		Leland	EL-300
5/8.....	.625	13/16....	.815	27/32	27/32 x 1/16	Century	EL-122
5/8.....	.630	13/16....	.815	15/16	7/8 x 3/32	B.-B.	EL-248
5/8.....	.623	13/16....	.815	31/32	63/64 x 3/32	Delco	EL-13
5/8.....	.625	13/16....	.8145	1	27/32 x 1/16	Century	EL-78
5/8.....	.625	13/16....	.815	1-3/32	15/16 x 1/16	Century	EL-226
5/8.....	.625	13/16....	.815	1-5/32	27/32 x 1/16	Century	EL-123
5/8.....	.625	13/16....	.813	1-5/16	29/32 x 3/16	B.-B.	EL-84
5/8.....	.625	7/8.....	.878	1-1/64	15/16 x 5/64	Dayfan	EL-24
5/8.....	.625	7/8.....	.876	1-1/4		Ohio	EL-197
5/8.....	.625	7/8.....	.877	1-1/4		Apex, Mara.	
						Peer. Sun.	EL-26
5/8.....	.625	7/8.....	.877	1-1/4		Westghse.	EL-40
5/8.....	.625	7/8.....	.877	1-1/4		Westghse.	EL-86
5/8.....	.625	7/8.....	.877	1-1/4		G. E.	EL-91
5/8.....	.625	7/8.....	.875	1-23/64		Emerson	EL-36
5/8.....	.625	7/8.....	.876	1-7/16		Ohio	EL-198
5/8.....	.625	7/8.....	.877	1-7/16		Dayfan	EL-53
5/8.....	.625	7/8.....	.877	1-1/2	15/16 x 5/32	Westghse.	EL-42

NEED HELP ON BEARINGS—CALL US

BUNTING ELECTRIC MOTOR BEARINGS—Continued

INSIDE DIAMETER		OUTSIDE DIAMETER		LENGTH	FLANGE	MOTOR	BUNTING PART No.
Nominal	Decimal	Nominal	Decimal				
5/8.....	.625	15/16...	.939	1-3/16	1-1/32 x 1/8	R. & M.	EL-103
5/8.....	.625	15/16...	.940	1-1/4	1-1/8 x 1/8	G. E.	EL-159
5/8.....	.625	15/16...	.9395	1-3/8	1 x 1/8	G. E.	EL-38
5/8.....	.625	15/16...	.940	1-1/2	1 x 3/16	G. E.	EL-92
5/8.....	.626	15/16...	.937	1-9/16	1 x 1/8	G. E.	EL-162
5/8.....	.625	1.....	1.0025	1		Star	EL-194
5/8.....	.625	1.....	1.000	1-9/32		Master	EL-46
5/8.....	.625	1-1/16....	1.0625	1-1/2	1-1/8 x 1/8	Emerson	EL-141
41/64....	.645	25/32....	.7805	1		Wagner	EL-25X
41/64....	.645	25/32....	.7805	1-1/8		Wagner	EL-9X
41/64....	.645	25/32....	.7835	1-1/16		J. & H.	EL-285X
41/64....	.645	7/8.....	.878	1-1/8		Wagner	EL-1X
21/32....	.656	3/4.....	.752	1-1/8		Leland	EL-165
21/32....	.656	3/4.....	.7515	1-5/32		Leland	EL-273
21/32....	.655	3/4.....	.752	1-11/32		Leland	EL-28
21/32....	.656	3/4.....	.7515	1-11/32		Leland	EL-270
21/32....	.655	25/32....	.7805	1		Wagner	EL-25
21/32....	.655	25/32....	.7805	1-1/8		Wagner	EL-9
21/32....	.655	25/32....	.7835	1-1/16		J. & H.	EL-285
21/32....	.655	7/8.....	.878	1		Wagner	EL-8
21/32....	.655	7/8.....	.878	1-1/8		Wagner	EL-1
21/32....	.656	15/16...	.9395	1-3/8		Leland	EL-174
43/64....	.669	51/64....	.7915	1-1/16		Howell	EL-239
43/64....	.6775	51/64....	.801	1-1/8		Delco	EL-23X
43/64....	.669	27/32....	.8445	1	29/32 x 1/16	Howell	EL-267
43/64....	.675	15/16...	.940	1-3/16	63/64 x 1/8	Delco	EL-3X
43/64....	.6775	15/16...	.940	1-25/64	63/64 x 9/64	Century	EL-6X
43/64....	.6775	1.....	1.002	1-1/8		Wagner	EL-10X
11/16....	.6875	51/64....	.801	1-1/8		Delco	EL-23
11/16....	.6875	13/16....	.815	1-3/16		Emerson	EL-255
11/16....	.6875	13/16....	.815	1-5/16		Emerson	EL-251
11/16....	.6875	15/16...	.9395	1	63/64 x 9/64	Century	EL-171
11/16....	.685	15/16...	.940	1-3/16	63/64 x 1/8	Delco	EL-3
11/16....	.6875	15/16...	.9395	1-1/4	63/64 x 9/64	Century	EL-166
11/16....	.6875	15/16...	.9395	1-5/16	63/64 x 1/8	Century	EL-227
11/16....	.6875	15/16...	.9395	1-3/8	1 x 1/8	Delco	EL-55
11/16....	.6875	15/16...	.940	1-25/64	63/64 x 9/64	Century	EL-6
11/16....	.6875	15/16...	.940	1-25/64	63/64 x 9/64	Century	EL-31
11/16....	.6875	15/16...	.9395	1-31/64	63/64 x 9/64	Century	EL-188
11/16....	.6875	1.....	1.002	1-1/18		Wagner	EL-10
11/16....	.6875	1.....	1.002	1-3/8		Wagner	EL-34
47/64....	.740	55/64....	.864	1-1/8		Delco	EL-27X
47/64....	.740	7/8.....	.8765	1-3/32		Wagner	EL-241X
47/64....	.740	15/16...	.940	1-1/4	63/64 x 1/8	Delco	EL-2X
47/64....	.740	15/16...	.940	1-1/2		G. E.	EL-193X
47/64....	.740	1-3/16....	1.188	1-7/8	1-1/4 x 5/16	G. E.	EL-19X
3/4.....	.750	55/64....	.864	1-1/8		Delco	EL-27
3/4.....	.750	7/8.....	.8765	1-3/32		Wagner	EL-241
3/4.....	.750	7/8.....	.8775	1-1/4		Leland	EL-271
3/4.....	.750	7/8.....	.8765	1-1/2		Westghse.	EL-245
3/4.....	.750	7/8.....	.8767	1-3/4		Peerless	EL-279
3/4.....	.750	15/16...	.940	1-1/4	63/64 x 1/8	Delco	EL-2
3/4.....	.750	15/16...	.939	1-1/2		G. E.	EL-193
3/4.....	.750	1.....	1.002	1-1/2		Westghse.	EL-35
3/4.....	.750	1.....	1.0015	1-1/2	1-1/16 x 5/32	Westghse.	EL-97
3/4.....	.750	1.....	1.002	1-3/4	1-3/32 x 1/16	Leland	EL-85
3/4.....	.750	1.....	1.001	2-3/32		Westghse.	EL-282
3/4.....	.7515	1-1/16....	1.064	1-1/2	1-3/16 x 1/8	G. E.	EL-68
3/4.....	.750	1-1/16....	1.0645	1-3/4		Peerless	EL-277

NEED HELP ON BEARINGS—CALL US

BUNTING ELECTRIC MOTOR BEARINGS—Continued

INSIDE DIAMETER		OUTSIDE DIAMETER		LENGTH	FLANGE	MOTOR	BUNTING PART No.
Nominal	Decimal	Nominal	Decimal				
3/4.....	.750	1-1/16....	1.0645	1-13/16	1-7/64 x 7/32	G. E.	EL-48
3/4.....	.7515	1-1/16....	1.064	1-13/16	1-7/64 x 13/64	G. E.	EL-71
3/4.....	.752	1-1/16....	1.0625	1-55/64	1-11/64 x 1/8	G. E.-H. C.	EL-14
3/4.....	.7515	1-1/16....	1.064	1-7/8	1-15/64 x 1/8	G. E.	EL-67
3/4.....	.7507	1-1/16....	1.065	2	1-7/64 x 1/8	G. E.	EL-135
3/4.....	.752	1-1/16....	1.0632	2	1-1/8 x 1/4	Al.-Chal.	EL-177
3/4.....	.750	1-1/8.....	1.126	1-11/16	1-3/16 x 3/32	Emerson	EL-201
3/4.....	.752	1-1/8.....	1.1262	1-7/8	1-3/16 x 1/8	Al.-Chal.	EL-178
3/4.....	.750	1-1/8.....	1.129	1-7/8	1-7/32 x 1/8	G. E; Al.-Chal.	EL-52
3/4.....	.7502	1-3/16....	1.1875	1-1/2	1-1/4 x 5/32	Emerson	EL-140
3/4.....	.7512	1-3/16....	1.188	1-7/8	1-1/4 x 5/16	G. E.	EL-19
3/4.....	.7515	1-3/16....	1.189	2		Westghse.	EL-76
3/4.....	.750	1-1/4.....	1.251	2-3/16	1-3/8 x 1/8	R. & M.	EL-104
3/4.....	.750	1-19/32...	1.596	1-3/4		Master	EL-51
25/32....	.787	29/32...	.912	1-1/4		Howell	EL-290
25/32....	.7875	15/16...	.939	1-11/32		Leland	EL-272
.787.....	.788	.901.....	.9005	1.297		Leland	EL-302
.787.....	.788	.941.....	.9405	1-1/8		Leland	EL-301
.787.....	.788	.941.....	.9405	1-5/16		Leland	EL-299
51/64....	.8025	15/16...	.940	1-49/64		Wagner	EL-4X
51/64....	.8025	61/64...	.959	1-1/4		B.-B.	EL-225X
51/64....	.8025	1-1/16....	1.0645	1-3/4	1-3/32 x 1/8	Wagner	EL-16X
51/64....	.8025	1-1/16....	1.065	1-3/4	1-1/8 x 1/8	Wagner	EL-18X
13/16....	.8125	15/16...	.940	1-5/16		Wagner	EL-303
13/16....	.8125	15/16...	.940	1-1/2		Emerson	EL-250
13/16....	.8125	15/16...	.940	1-11/16		Master	EL-287
13/16....	.8125	15/16...	.940	1-49/64		Wagner	EL-4
13/16....	.8125	61/64...	.959	1-1/4		B.-B.	EL-225
13/16....	.8125	1-1/16....	1.0645	31/32	1-3/32 x 7/64	Century	EL-170
13/16....	.8125	1-1/16....	1.0645	1-1/8	1-3/32 x 1/8	Century	EL-172
13/16....	.8125	1-1/16....	1.062	1-1/4		Mara.	EL-276
13/16....	.8125	1-1/16....	1.0645	1-5/16		Century	EL-293
13/16....	.8125	1-1/16....	1.0645	1-29/64	1-3/32 x 7/64	Century	EL-167
13/16....	.8125	1-1/16....	1.0645	1-1/2	1-3/32 x 1/8	Century	EL-228
13/16....	.8125	1-1/16....	1.062	1-9/16		Mara.	EL-275
13/16....	.8125	1-1/16....	1.0645	1-5/8	1-3/32 x 1/8	Century	EL-173
13/16....	.8125	1-1/16....	1.066	1-5/8	1-3/16 x 3/16	Century	EL-213
13/16....	.8125	1-1/16....	1.0645	1-3/4	1-3/32 x 1/8	Wagner	EL-16
13/16....	.8125	1-1/16....	1.065	1-3/4	1-1/8 x 1/8	Wagner	EL-18
13/16....	.8125	1-1/16....	1.066	2	1-3/32 x 1/8	Century	EL-11
13/16....	.8125	1-1/16....	1.066	2	1-3/32 x 1/8	Century	EL-30
13/16....	.8125	1-1/16....	1.066	2-1/4	1-3/32 x 3/16	Century	EL-22
13/16....	.8125	1-1/16....	1.066	2-1/4	1-3/16 x 3/16	Century	EL-32
13/16....	.8125	1-1/16....	1.066	2-1/4	1-3/16 x 3/16	Century	EL-212
13/16....	.8125	1-1/16....	1.065	2-1/2	1-1/8 x 1/8	Wagner	EL-127
13/16....	.813	1-1/8.....	1.129	1-5/8	1-1/4 x 1/8	B.-B.	EL-79
13/16....	.8125	1-3/16....	1.1892	1-7/8	1-1/4 x 1/8	R. & M.	EL-218
13/16....	.8125	1-19/32...	1.596	1-3/4		Master	EL-47
55/64....	.865	1.....	.999	1-5/32		Delco	EL-229X
7/8.....	.875	1.....	.999	1-5/32		Delco	EL-229
7/8.....	.875	1.....	1.0025	1-9/16		Westghse.	EL-242
7/8.....	.875	1-1/16....	1.0645	7/8		Century	EL-292
7/8.....	.875	1-1/8.....	1.128	1-3/4		G. E.	EL-93
7/8.....	.876	1-3/16....	1.190	1-3/4		Westghse.	EL-119
7/8.....	.876	1-3/16....	1.189	1-3/4	1-1/4 x 5/32	Westghse.	EL-204
7/8.....	.876	1-3/16....	1.189	1-3/4	1-1/4 x 5/32	Westghse.	EL-143

NEED HELP ON BEARINGS—CALL US

BUNTING ELECTRIC MOTOR BEARINGS—Continued

INSIDE DIAMETER		OUTSIDE DIAMETER		LENGTH	FLANGE	MOTOR	BUNTING PART No.
Nominal	Decimal	Nominal	Decimal				
7/8.....	.875	1-3/16....	1.189	2-1/16	1-3/8 x 5/32	Westghse.	EL-146
7/8.....	.876	1-3/16....	1.189	2-1/8		Westghse.	EL-169
7/8.....	.875	1-3/16....	1.1885	2-3/8		Westghse.	EL-283
7/8.....	.875	1-7/16....	1.4375	2	1-1/2 x 3/16	Emerson	EL-154
29/32....	.906	1-1/4.....	1.252	2		Leland	EL-39
63/64....	.986	1-3/16....	1.1735	1-1/2		G. E.	EL-256
63/64....	.9865	1-1/4.....	1.2515	1-9/16	1-5/16 x 1/8	G. E.	EL-231
1.....	1.000	1-1/8.....	1.1267	1-3/4		Peerless	EL-280
1.....	1.002	1-3/16....	1.1885	2		G. E.	EL-258
1.....	1.002	1-1/4.....	1.251	1-5/16	1-11/32 x 3/16	Louis Allis	EL-268
1.....	1.001	1-5/16....	1.315	2	1-3/8 x 9/64	Westghse.	EL-120
1.....	1.0025	1-5/16....	1.314	2-1/2	1-3/8 x 23/64	G. E.	EL-70
1.....	1.0015	1-5/16....	1.3145	2-1/2	1-3/8 x 5/32	Westghse.	EL-75
1.....	1.000	1-3/8.....	1.376	2	1-1/2 x 9/64	G. E.	EL-94
1.....	1.001	1-3/8.....	1.375	2-1/2	1-31/64 x 1/8	G. E.	EL-49
1.....	1.0025	1-3/8.....	1.377	2-1/2	1-1/2 x 1/8	G. E.	EL-66
1.....	1.001	1-3/8.....	1.377	2-1/2	1-1/2 x 1/8	G. E.	EL-153
1.....	1.001	1-7/16....	1.4385	2-1/2	1-1/2 x 3/8	G. E.	EL-57
1.....	1.001	1-7/16....	1.439	2-1/2	1-9/16 x 1/8	Al-Chal.	EL-195
1.....	1.002	1-7/16....	1.439	2-1/2	1-9/16 x 5/32	Westghse.	EL-208
1.....	1.002	1-7/16....	1.4382	2-1/2	1-9/16 x 7/16	Al-Chal.	EL-179
1.....	1.002	1-7/16....	1.4382	3	1-9/16 x 7/16	Al-Chal.	EL-180
1.....	1.000	1-5/8.....	1.625	2	1-11/16 x 7/32	Emerson	EL-155
1-1/64....	1.020	1-5/32....	1.156	1-7/16		Delco	EL-20X
1-1/64....	1.020	1-5/32....	1.156	1-3/4		Delco	EL-21X
1-1/32....	1.030	1-5/32....	1.156	1-7/16		Delco	EL-20
1-1/32....	1.030	1-5/32....	1.156	1-3/4		Delco	EL-21
1-1/32....	1.031	1-5/16....	1.3145	1-1/2	1-3/8 x 1/8	Delco	EL-54
1-1/32....	1.031	1-5/16....	1.3145	1-3/4	1-3/8 x 1/8	Delco	EL-44
1-1/16....	1.0515	1-3/16....	1.189	2-9/64		Wagner	EL-106X
1-1/16....	1.0625	1-3/16....	1.190	1-3/4		Emerson	EL-253
1-1/16....	1.0625	1-3/16....	1.1892	1-13/16		Peerless	EL-278
1-1/16....	1.0615	1-3/16....	1.189	2-9/64		Wagner	EL-106
1-1/16....	1.0625	1-3/16....	1.190	2-1/4		Emerson	EL-254
1-1/16....	1.0625	1-5/16....	1.3145	2-1/4	1-11/32 x 3/16	Century	EL-37
1-1/16....	1.0625	1-3/8.....	1.377	2-9/64	1-15/32 x 7/32	Wagner	EL-145
1-1/16....	1.0625	1-7/16....	1.440	1-5/8	1-1/2 x 1/4	Century	EL-217
1-1/16....	1.063	1-7/16....	1.4405	2-5/8	1-15/32 x 1/4	Century	EL-294
1-1/16....	1.0625	1-7/16....	1.440	2-5/8	1-1/2 x 1/4	Century	EL-216
1-1/16....	1.0625	1-7/16....	1.4392	2-3/4	1-1/2 x 1/4	Century	EL-249
1-1/16....	1.0625	1-7/16....	1.440	3	1-1/2 x 1/4	Century	EL-33
1-1/8.....	1.125	1-1/4.....	1.2525	1-3/4		Westghse.	EL-243
1-1/8.....	1.125	1-7/16....	1.440	1-7/8		Westghse.	EL-244
1-1/8.....	1.127	1-7/16....	1.439	2-1/4	1-1/2 x 5/32	Westghse.	EL-149
1-1/8.....	1.1275	1-7/16....	1.439	2-3/4	1-1/2 x 7/16	G. E.	EL-69
1-1/8.....	1.126	1-7/16....	1.439	2-13/16		Westghse.	EL-118
1-1/8.....	1.125	1-1/2.....	1.502	3-1/8	1-5/8 x 1/8	Wagner	EL-126
1-1/8.....	1.127	1-9/16....	1.564	2-1/4	1-47/64 x 3/16	G. E.	EL-95
1-1/8.....	1.127	1-9/16....	1.563	2-1/2	1-5/8 x 7/16	G. E.	EL-192
1-1/8.....	1.1265	1-9/16....	1.564	2-1/2	1-11/16 x 5/32	Westghse.	EL-207
1-1/8.....	1.127	1-9/16....	1.563	2-3/4	1-5/8 x 7/16	G. E.	EL-151
1-1/8.....	1.127	1-9/16....	1.5645	2-3/4	1-5/8 x 7/16	G. E.	EL-297

BUNTING ELECTRIC MOTOR BEARINGS—Continued

INSIDE DIAMETER		OUTSIDE DIAMETER		LENGTH	FLANGE	MOTOR	BUNTING PART No.
Nominal	Decimal	Nominal	Decimal				
1-1/8.....	1.127	1-9/16....	1.564	2-13/16	1-3/4 x 3/16	G. E.	EL-163
1-1/8.....	1.127	1-9/16....	1.563	2-13/16	1-3/4 x 3/16	G. E.	EL-50
1-1/8.....	1.125	1-5/8.....	1.627	2-13/16	1-3/4 x 3/8	Westghse.	EL-88
1-3/16.....	1.183	1-3/8.....	1.3705	1-11/16		G. E.	EL-257
1-3/16.....	1.1835	1-31/64...	1.4865	1-13/16	1-35/64 x 1/8	G. E.	EL-232
1-3/16.....	1.1875	1-1/2.....	1.5015	2-13/32		Wagner	EL-219
1-3/16.....	1.182	1-9/16....	1.5625	1-7/8		G. E.	EL-298
1-1/4.....	1.250	1-1/2.....	1.502	2-1/4	1-9/16 x 1/8	Delco	EL-168
1-1/4.....	1.2525	1-5/8.....	1.626	1-5/8	1-23/32 x 1/4	Louis Allis.	EL-269
1-1/4.....	1.252	1-5/8.....	1.626	2-1/2	1-47/64 x 1/4	Westghse.	EL-150
1-1/4.....	1.250	1-11/16...	1.690	2	1-47/64 x 1/4	Century	EL-214
1-1/4.....	1.252	1-11/16...	1.688	2-1/2	1-7/8 x 3/16	G. E.	EL-148
1-1/4.....	1.252	1-11/16...	1.689	3-3/32	1-3/4 x 7/16	Al.-Chal.	EL-196
1-1/4.....	1.252	1-11/16...	1.688	3-3/32	1-7/8 x 3/16	G. E.	EL-64
1-1/4.....	1.250	1-11/16...	1.690	3-1/8	1-47/64 x 1/4	Century	EL-215
1-1/4.....	1.252	1-11/16...	1.6875	3-1/8	1-3/4 x 7/16	G. E.	EL-58
1-1/4.....	1.252	1-11/16...	1.689	3-1/8	1-7/8 x 3/16	G. E.	EL-175
1-1/4.....	1.252	1-11/16...	1.688	3-1/8	1-7/8 x 3/16	G. E.	EL-65
1-1/4.....	1.252	1-11/16...	1.6882	3-1/4	1-13/16 x 7/16	Al.-Chal.	EL-183
1-1/4.....	1.250	1-11/16...	1.690	3-3/4	1-47/64 x 5/16	Century	EL-144
1-1/4.....	1.253	1-3/4.....	1.751	3-1/8	1-7/8 x 1/2	Westghse.	EL-117
1-5/16.....	1.3125	1-1/2.....	1.5025	2-3/4		Emerson	EL-252
1-5/16.....	1.3125	1-11/16...	1.690	2-5/8	1-13/16 x 3/16	Wagner	EL-211
1-3/8.....	1.382	1-47/64...	1.7265	2-3/16	1-25/32 x 1/4	G. E.	EL-234
1-3/8.....	1.378	1-3/4.....	1.751	1-3/4	1-27/32 x 1/4	Louis Allis.	EL-284
1-3/8.....	1.377	1-7/8.....	1.875	2-3/4	2 x 3/16	G. E.	EL-152
1-3/8.....	1.377	1-7/8.....	1.877	3-7/16	2 x 3/16	G. E.	EL-185
1-3/8.....	1.377	1-7/8.....	1.875	3-7/16	2 x 3/16	G. E.	EL-63
1-3/8.....	1.377	1-7/8.....	1.8762	3-1/2	2 x 3/8	Al. Chal.	EL-181
1-3/8.....	1.378	1-29/32...	1.907	2-3/4	2 x 1/4	Westghse.	EL-115
1-3/8.....	1.378	1-29/32...	1.907	3	2 x 1/4	Westghse.	EL-206
1-3/8.....	1.377	1-29/32...	1.907	3-7/16	2 x 9/16	Westghse.	EL-74
1-1/2.....	1.503	1-29/32...	1.907	3	2 x 1/4	Westghse.	EL-142
1-1/2.....	1.502	1-29/32...	1.907	3-23/32	2 x 9/16	Westghse.	EL-116
1-1/2.....	1.502	2.....	2.002	3-3/4	2-3/16 x 3/16	G. E.	EL-186
1-1/2.....	1.502	2.....	2.000	3-3/4	2-3/16 x 3/16	G. E.	EL-62
1-1/2.....	1.502	2.....	2.000	3-3/4	2-3/16 x 3/16	G. E.	EL-147
1-1/2.....	1.502	2.....	2.000	4-1/2	2-3/16 x 3/16	G. E.	EL-187
1-1/2.....	1.502	2-1/16....	2.0625	3-3/4	2-1/8 x 1/2	G. E.	EL-59
1-1/2.....	1.502	2-1/16....	2.0625	3-25/32	2-1/8 x 1/2	G. E.	EL-190
1-1/2.....	1.503	2-1/8.....	2.1255	4	2-1/4 x 7/16	Al.-Chal.	EL-184
1-37/64....	1.578	1-61/64...	1.952	2-3/8	2-1/32 x 1/4	G. E.	EL-235
1-5/8.....	1.6255	2.....	2.0025	4	2-1/8 x 1/4	Wagner	EL-107
1-5/8.....	1.628	2-1/16....	2.0625	3-31/32	2-1/8 x 9/32	Westghse.	EL-139
1-3/4.....	1.753	2-1/4.....	2.2505	4-11/32	2-7/16 x 3/16	G. E.	EL-128
1-3/4.....	1.753	2-1/4.....	2.250	4-3/8	2-13/32 x 3/16	G. E.	EL-61
1-3/4.....	1.753	2-1/4.....	2.2505	4-3/8	2-7/16 x 3/16	G. E.	EL-164

NEED HELP ON BEARINGS—CALL US

BUNTING ELECTRIC MOTOR BEARINGS—Continued

INSIDE DIAMETER		OUTSIDE DIAMETER		LENGTH	FLANGE	MOTOR	BUNTING PART No.
Nominal	Decimal	Nominal	Decimal				
1-3/4.....	1.753	2-5/16....	2.3125	3-1/2	2-3/8 x 5/16	Westghse.	EL-203
1-3/4.....	1.753	2-5/16....	2.3125	4-3/8	2-3/8 x 11/16	G. E.	EL-60
1-3/4.....	1.753	2-5/16....	2.3125	4-3/8	2-3/8 x 9/32	Westghse.	EL-73
1-3/4.....	1.753	2-5/16....	2.3125	4-3/8	2-3/8 x 45/64	G. E.	EL-191
1-3/4.....	1.753	2-5/16....	2.314	4-3/8	2-13/32 x 9/32	Westghse.	EL-205
1-3/4.....	1.753	2-5/16....	2.313	4-1/2	2-1/2 x 11/16	Al.-Chal.	EL-182
1-25/32....	1.775	2-13/64...	2.2015	2-5/8	2-9/32 x 1/4	G. E.	EL-233
1-7/8.....	1.878	2-5/16....	2.3125	4-21/32	2-3/8 x 7/16	Westghse.	EL-138
2.....	2.0035	2/9/16....	2.5625	3-1/4	2-5/8 x 5/16	G. E.	EL-263
2.....	2.003	2-9/16....	2.5625	4	2-5/8 x 11/32	Westghse.	EL-202
2.....	2.003	2-9/16....	2.5625	5	2-5/8 x 11/32	Westghse.	EL-96
2.....	2.003	2-9/16....	2.5625	5	2-5/8 x 13/16	G. E.	EL-108
2-1/4.....	2.2535	2-13/16...	2.8125	3-5/8	2-7/8 x 3/8	G. E.	EL-264
2-1/4.....	2.254	2-13/16...	2.8125	5-5/8	2-7/8 x 7/8	G. E.	EL-121
2-1/2.....	2.5045	3-1/16....	3.0625	6-1/4	3-1/4 x 13/32	Westghse.	EL-129
2-1/2.....	2.5065	3-3/16....	3.1875	6-7/32	3-1/4 x 1	G. E.	EL-189
2-3/4.....	2.755	3-7/16....	3.4375	4-3/8	3-1/2 x 3/8	G. E.	EL-265
2-3/4.....	2.755	3-7/16....	3.4375	6-7/8	3-1/2 x 1-1/8	G. E.	EL-176
3.....	3.005	3-11/16...	3.6875	4-3/4	3-3/4 x 7/16	G. E.	EL-266
3.....	3.006	3-11/16...	3.6875	7-1/2	3-3/4 x 1-1/4	G. E.	EL-259
3.....	3.006	3-11/16...	3.6875	7-1/2	3-7/8 x 1/2	Westghse.	EL-281

BUNTING ALLOY NO. 72 (SAE 660)

Bunting No. 72 Bearing Bronze (SAE 660) is the alloy used in all Bunting Standard Stock Bearings, Bunting Precision Bronze Bars and Electric Motor Bearings, as well as in a majority of Bunting Special Bearings. Extensive research has proven that the composition 83% copper, 7% tin, 7% lead and 3% zinc insures the proper balance of those properties required in a general purpose bearing bronze—good anti-friction properties, ample strength and hardness, sufficient ductility, and fine machineability.

Coupled with the ideal composition, and equally important, is the engineered quality of Bunting No. 72 Bearing Bronze. Such quality can only be assured through rigid control of all phases of

the processing procedures. Impurities, melting practice, de-oxidation, pouring temperature, and the design of pattern equipment and gating are carefully controlled and combined with scientifically prepared molding materials to guarantee castings of uniformly high quality.

Bunting Bronze Bars and Bearings are machined by methods which protect the serviceability of this excellent bearing bronze. The thousands of satisfied users who specify Bunting No. 72 Bearing Bronze for their requirements prove that this alloy is the peer of any bearing bronze.

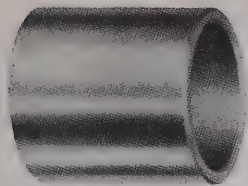
PHYSICAL

Tensile Strength	34,000 Lbs./sq. in.
Yield Strength	16,000 Lbs./sq. in.
Compressive Strength	20,000 Lbs./sq. in.
Elongation—% in 2 inches	18
Brinnell Hardness	58

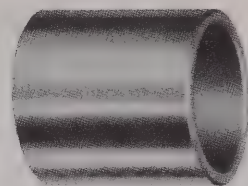
Compressive Strength

The compressive strength of a bearing material is a measure of its ability to accept load without sustaining excessive deformation. Numerical values are obtained by making compression tests in which the relation between load and deformation is determined for a specimen of given dimensions. It is important to note the compressive limit defined in this way, depends upon thickness in relation to cross-sectional area and the given limiting value of deformation.

The compressive limit for Bunting No. 72 alloy (SAE 660) is 20,000 pounds per square inch, based upon a thickness of 1/8", a cross sectional area of 7/10 of a square inch and a permanent deformation of 2/1000 of an inch per inch. Similar values for alloys of other manufacture can be compared directly *only* when the basis for their determination is identical with that stated.



OIL FILLED



SELF LUBRICATING

BUNTING SINTERED POWDERED BRONZE PLAIN BEARINGS

Bunting offers a complete line of plain stock bearings, flange stock bearings, washers and bars all made of Bunting sintered bronze. The Bunting Powdered Bronze Stock line, which has long conformed to ASTM chemical and physical properties, is the first to include all ASTM standard sizes to ASTM recommended dimensions and tolerances. These ASTM Standards are the result of ten years of work by the engineers of a majority of manufacturers of powdered bronze bearings and Bunting is the first to adopt this standardized line.

The use of such standards eliminates a multiplicity of bore sizes for a given nominal bore and a multiplicity of O.D. sizes for a given nominal O.D. It brings to the sintered bronze bearing field exactly what the long-established line of Bunting stock cast bronze bearings brought to the cast bronze field. It offers you the advantage of volume production on each size without buying in any quantity larger than your immediate need.

Inside Diam.	Outside Diam.	Length	Part Number	Inside Diam.	Outside Diam.	Length	Part Number	Inside Diam.	Outside Diam.	Length	Part Number
1/8 .127	3/16 .1905	1/4 1/2	P12-2 P12-4	1/4 .252	5/16 .3155	1/4 3/8 1/2 3/4	P25-2 P25-3 P25-4 P25-6	5/16 Cont'd	3/8	5/8 3/4 7/8 1	P31-5 P31-6 P31-7 P31-8
1/8 .127	1/4 .253	1/8 1/4 3/8 1/2	P13-1 P13-2 P13-3 P13-4	1/4 .252	3/8 .378	1/4 3/8 1/2 5/8 3/4 7/8 1 1 1/8 1 1/4	P26-2 P26-3 P26-4 P26-5 P26-6 P26-7 P26-8 P26-9 P26-10	5/16 .3145	7/16 .4405	1/4 3/8 1/2 5/8 3/4 7/8 1 1 1/8 1 1/4	P32-2 P32-3 P32-4 P32-5 P32-6 P32-7 P32-8 P32-9 P32-10
3/16 .1895	1/4 .253	1/4 3/8 1/2 5/8 3/4	P18-2 P18-3 P18-4 P18-5 P18-6	1/4 .252	7/16 .4405	3/8 1/2 5/8 3/4 7/8 1	P27-3 P27-4 P27-5 P27-6 P27-7 P27-8	5/16 .3145	1/2 .503	3/8 1/2 5/8 3/4 7/8 1 1 1/4 1 1/2	P33-3 P33-4 P33-5 P33-6 P33-7 P33-8 P33-10 P33-12
3/16 .1895	5/16 .3155	1/4 3/8 1/2 5/8 3/4 1	P19-2 P19-3 P19-4 P19-5 P19-6 P19-8	1/4 .252	1/2 .503	1/2 3/4 1 1 1/4	P28-4 P28-6 P28-8 P28-10	3/8 .377	7/16 .4405	1/2 5/8 3/4 1	P37-4 P37-5 P37-6 P37-8
3/16 1895	3/8 .378	3/8 1/2 5/8 3/4	P20-3 P20-4 P20-5 P20-6	5/16 .3145	3/8 .378	1/4 3/8 1/2	P31-2 P31-3 P31-4	Cont'd next Col.			

FOR TOLERANCES SEE PAGE 313

NEED HELP ON BEARINGS—CALL US

BUNTING SINTERED BRONZE BEARINGS—Continued

Inside Diam.	Outside Diam.	Length	Part Number	Inside Diam.	Outside Diam.	Length	Part Number	Inside Diam.	Outside Diam.	Length	Part Number
3/8 .377	1/2 .503	1/4 3/8 1/2 5/8 3/4 7/8 1 1 1/8 1 1/4	P38-2 P38-3 P38-4 P38-5 P38-6 P38-7 P38-8 P38-9 P38-10	1/2 .502	5/8 .628	3/8 1/2 5/8 3/4 7/8 1 1 1/8 1 1/4 1 1/2	P50-3 P50-4 P50-5 P50-6 P50-7 P50-8 P50-9 P50-10 P50-12	9/16 .5645	3/4 .753	1/2 3/4 1 1 1/4 1 1/2	P57-4 P57-6 P57-8 P57-10 P57-12
3/8 .377	9/16 .5655	3/8 1/2 5/8 3/4 7/8 1 1 1/4	P39-3 P39-4 P39-5 P39-6 P39-7 P39-8 P39-10	1/2 .502	11/16 .6905	1/2 5/8 3/4 7/8 1 1 1/8 1 1/4 1 1/2	P51-4 P51-5 P51-6 P51-7 P51-8 P51-9 P51-10 P51-12	9/16 .5645	13/16 .8165	1/2 3/4 1 1 1/4 1 1/2	P58-4 P58-6 P58-8 P58-10 P58-12
3/8 .377	5/8 .628	3/8 1/2 5/8 3/4 7/8 1 1 1/4	P40-3 P40-4 P40-5 P40-6 P40-7 P40-8 P40-10	1/2 .502	3/4 .753	3/8 1/2 5/8 3/4 7/8 1 1 1/8 1 1/4 1 1/2 1 3/4 2	P52-3 P52-4 P52-5 P52-6 P52-7 P52-8 P52-9 P52-10 P52-12 P52-14 P52-16	5/8 .627	3/4 .753	1/2 5/8 3/4 7/8 1 1 1/8 1 1/4 1 1/2 1 3/4	P62-4 P62-5 P62-6 P62-7 P62-8 P62-9 P62-10 P62-12
3/8 .377	3/4 .753	3/8 1/2 3/4 1 1 1/4	P41-3 P41-4 P41-6 P41-8 P41-10	1/2 .502	13/16 .8165	1/2 3/4 1 1 1/2	P53-4 P53-6 P53-8 P53-12	5/8 .627	7/8 .879	1/2 5/8 3/4 7/8 1 1 1/8 1 1/4 1 1/2 1 3/4 2	P63-4 P63-5 P63-6 P63-7 P63-8 P63-10 P63-12 P63-14
7/16 .4395	9/16 .5655	3/8 1/2 5/8 3/4 7/8 1 1 1/4	P43-3 P43-4 P43-5 P43-6 P43-7 P43-8 P43-10	1/2 .502	7/8 .879	1/2 5/8 3/4 7/8 1 1 1/4 1 1/2	P54-4 P54-5 P54-6 P54-7 P54-8 P54-10 P54-12	5/8 .627	15/16 .9415	5/8 3/4 1	P64-4 P64-5 P64-6 P64-7 P64-8 P64-9 P64-10 P64-12 P64-14 P64-16
7/16 .4395	5/8 .628	3/8 1/2 5/8 3/4 7/8 1 1 1/4 1 1/2	P44-3 P44-4 P44-5 P44-6 P44-7 P44-8 P44-10 P44-12	1/2 .502	1 1.004	3/4 1 1 1/2 2	P55-6 P55-8 P55-12 P55-16	5/8 .627	1 1.004	1/2 5/8 3/4 7/8 1 1 1/4 1 1/2 1 3/4 2	P65-5 P65-6 P65-8 P66-4 P66-5 P66-6 P66-7 P66-8 P66-10 P66-12 P66-14 P66-16
7/16 .4395	11/16 .6905	1/2 1 1 1/2	P45-4 P45-8 P45-12	9/16 .5645	11/16 .6905	1/2 3/4 1 1 1/4 1 1/2	P56-4 P56-6 P56-8 P56-10 P56-12				

FLANGE BEARINGS SEE PAGE 314. THRUST BEARINGS SEE PAGE 315. BARS SEE PAGE 316.

NEED HELP ON BEARINGS—CALL US

BUNTING SINTERED BRONZE BEARINGS—Continued

Inside Diam.	Outside Diam.	Length	Part Number	Inside Diam.	Outside Diam.	Length	Part Number	Inside Diam.	Outside Diam.	Length	Part Number
11/16 .6895	7/8 .879	3/4 1 1 1/4 1 1/2 1 3/4 2	P68-6 P68-8 P68-10 P68-12 P68-14 P68-16	13/16 .8145	1 1.004	3/4 1 1 1/4 1 1/2 1 3/4	P81-6 P81-8 P81-10 P81-12 P81-14	1 1.003	1-1/8 1.129	3/4 1 1 1/4 1 1/2 1 3/4 2	P100-6 P100-8 P100-10 P100-12 P100-14 P100-16
3/4 .752	7/8 .879	1/2 5/8 3/4 7/8 1 1 1/8 1 1/4 1 1/2 1 5/8	P75-4 P75-5 P75-6 P75-7 P75-8 P75-9 P75-10 P75-12 P75-13	13/16 .8145	1-1/16 1.0665	1 1 1/4	P82-8 P82-10	1 1.003	1-3/16 1.1915	3/4 1 1 1/4 1 1/2 1 3/4 2	P101-6 P101-8 P101-10 P101-12 P101-14 P101-16
3/4 .752	15/16 .9415	1/2 5/8 3/4 7/8 1 1 1/8 1 1/4 1 1/2 1 5/8 1 3/4 1 7/8 2	P76-4 P76-5 P76-6 P76-7 P76-8 P76-9 P76-10 P76-12 P76-13 P76-14 P76-15 P76-16	7/8 .877	1-1/16 1.0665	1 1 1/4 1 1/2	P88-8 P88-10 P88-12	1 1.003	1-1/4 1.254	1/2 3/4 7/8 1 1 1/4 1 3/8 1 1/2 1 3/4 2 2 1/4 2 1/2 3	P102-4 P102-6 P102-7 P102-8 P102-10 P102-11 P102-12 P102-14 P102-16 P102-18 P102-20 P102-24
3/4 .752	1 1.004	1/2 5/8 3/4 7/8 1 1 1/8 1 1/4 1 1/2 1 3/4 2 2 1/2	P77-4 P77-5 P77-6 P77-7 P77-8 P77-9 P77-10 P77-12 P77-14 P77-16 P77-20	7/8 .877	1-1/8 1.129	3/4 7/8 1 1 1/8 1 1/4 1 3/8 1 1/2 1 5/8 1 3/4 2 2 1/4 2 1/2	P89-6 P89-7 P89-8 P89-9 P89-10 P89-11 P89-12 P89-13 P89-14 P89-16 P89-18 P89-20	1 1.003	1-5/16 1.3165	1 1 1/4 1 1/2 1 3/4 2 2 1/2 3	P103-8 P103-10 P103-12 P103-14 P103-16 P103-20 P103-24
3/4 .752	1 1.004	1/2 5/8 3/4 7/8 1 1 1/8 1 1/4 1 1/2 1 3/4 2 2 1/2	P77-4 P77-5 P77-6 P77-7 P77-8 P77-9 P77-10 P77-12 P77-14 P77-16 P77-20	7/8 .877	1-1/4 1.254	3/4 1 1 1/4 1 1/2 2	P90-6 P90-8 P90-10 P90-12 P90-16	1 1.003	1-3/8 1.379	1 1 1/4 1 1/2 1 3/4 2 2 1/2	P104-8 P104-10 P104-12 P104-14 P104-16 P104-20
3/4 .752	1-1/8 1.129	1/2 3/4 1 1 1/4 1 1/2 1 3/4 2	P78-4 P78-6 P78-8 P78-10 P78-12 P78-14 P78-16	15/16 .9395	1-3/16 1.1915	3/4 1 1 1/4 1 1/2 2	P93-6 P93-8 P93-10 P93-12 P93-16	1 1.003	1-1/2 1.504	1 1 1/4 1 1/2 1 3/4 2 2 1/2 3	P105-8 P105-10 P105-12 P105-14 P105-16 P105-20 P105-24
3/4 .752	1-1/4 1.254	3/4 1 1 1/4 1 1/2	P79-6 P79-8 P79-10 P79-12	15/16 .9395	1-1/4 1.254	3/4 1 1 1/4 1 1/2 1 3/4 2	P94-6 P94-8 P94-10 P94-12 P94-14 P94-16	1-1/16 1.0655	1-5/16 1.3165	1 1 1/2 2 2 1/2	P106-8 P106-12 P106-16 P106-20

FLANGE BEARINGS SEE PAGE 314. THRUST BEARINGS SEE PAGE 315. BARS SEE PAGE 316.

NEED HELP ON BEARINGS—CALL US

BUNTING SINTERED BRONZE BEARINGS—Continued

Inside Diam.	Outside Diam.	Length	Part Number	Inside Diam.	Outside Diam.	Length	Part Number	Inside Diam.	Outside Diam.	Length	Part Number
1-1/8 1.128	1-1/4 1.254	1 1 1/4 1 1/2	P112-8 P112-10 P112-12	1-1/4 Cont'd	1-1/2	2 1/4 2 1/2 3	P125-18 P125-20 P125-24	1-1/2 Cont'd	1-3/4	1 3/8 1 1/2 1 3/4 2 2 1/4 2 1/2 3	P150-11 P150-12 P150-14 P150-16 P150-18 P150-20 P150-24
1-1/8 1.128	1-5/16 1.3165	1 1 1/4 1 1/2 1 3/4 2	P113-8 P113-10 P113-12 P113-14 P113-16	1-1/4 1.2535	1-5/8 1.630	1 1 1/4 1 1/2 1 3/4 2 2 1/2 3	P126-8 P126-10 P126-12 P126-14 P126-16 P126-20 P126-24	1-1/2 1.504	1-13/16 1.8175	1 1 1/2 1 5/8 3	P151-8 P151-12 P151-13 P151-24
1-1/8 1.128	1-3/8 1.379	3/4 1 1 1/4 1 1/2 1 3/4 2 2 1/2 3	P114-6 P114-8 P114-10 P114-12 P114-14 P114-16 P114-20 P114-24	1-1/4 1.2535	1-3/4 1.755	1 3/4 2 2 1/2 3	P127-14 P127-16 P127-20 P127-24	1-1/2 1.504	1-7/8 1.880	1 1/2 2 2 1/2 2 3/4 3	P152-12 P152-16 P152-20 P152-22 P152-24
1-1/8 1.128	1-1/2 1.504	1 1 1/4 1 1/2 1 3/4 2 2 1/2	P115-8 P115-10 P115-12 P115-14 P115-16 P115-20	1-5/16 1.316	1-5/8 1.630	1 1/4 1 1/2 2 2 1/2 3	P131-10 P131-12 P131-16 P131-20 P131-24	1-1/2 1.504	2 2.005	1 1 1/2 2 2 1/2 3 3 1/2	P153-8 P153-12 P153-16 P153-20 P153-24 P153-28
1-3/16 1.1905	1-7/16 1.4415	1 1/4 1 1/2 2 2 1/2 3	P118-10 P118-12 P118-16 P118-20 P118-24	1-3/8 1.3785	1-5/8 1.630	1 1 1/8 1 1/4 1 1/2 2 2 1/2 3	P137-8 P137-9 P137-10 P137-12 P137-16 P137-20 P137-24	1-5/8 1.629	1-7/8 1.880	1 1/4 1 1/2 1 3/4 2 2 1/4 2 1/2 3	P162-10 P162-12 P162-14 P162-16 P162-18 P162-20 P162-24
1-3/16 1.1905	1-1/2 1.504	1 1 1/4 1 1/2 1 3/4 2 2 1/2 3	P119-8 P119-10 P119-12 P119-14 P119-16 P119-20 P119-24	1-3/8 1.3785	1-3/4 1.755	1 1 1/2 2 2 1/2 3	P138-8 P138-12 P138-16 P138-20 P138-24	1-5/8 1.629	2 2.005	1 1 1/2 2 2 1/2 3	P163-8 P163-12 P163-16 P163-20 P163-24
1-1/4 1.2535	1-1/2 1.504	1/2 5/8 3/4 7/8 1 1 1/8 1 1/4 1 3/8 1 1/2 1 5/8 1 3/4 1 7/8 2	P125-4 P125-5 P125-6 P125-7 P125-8 P125-9 P125-10 P125-11 P125-12 P125-13 P125-14 P125-15 P125-16	1-7/16 1.441	1-3/4 1.755	1 1 1/4 1 1/2 1 3/4 2 2 1/2 3	P144-8 P144-10 P144-12 P144-14 P144-16 P144-20 P144-24	1-11/16 1.6915	2-3/16 2.1925	1 3/4 2 3 4	P168-14 P168-16 P168-24 P168-32
Cont'd next Col.		2	P125-16	1-1/2 1.504	1-3/4 1.755	3/4 7/8 1 1 1/4	P150-6 P150-7 P150-8 P150-10	1-3/4 1.754	2 2.005	1 1 1/4 1 1/2 1 3/4 2 2 1/2 3	P175-8 P175-10 P175-12 P175-14 P175-16 P175-20 P175-24
Cont'd next Col.				Cont'd next Col.							

FLANGE BEARINGS SEE PAGE 314. THRUST BEARINGS SEE PAGE 315. BARS SEE PAGE 316.

NEED HELP ON BEARINGS—CALL US

BUNTING SINTERED BRONZE BEARINGS—Continued

Inside Diam.	Outside Diam.	Length	Part Number	Inside Diam.	Outside Diam.	Length	Part Number	Inside Diam.	Outside Diam.	Length	Part Number
1-3/4 1.754	2-1/8 2.130	1 1/2 2 3	P176-12 P176-16 P176-24	2 2.004	2-1/2 2.505	1 1 1/2 2 2 1/2 3 3 1/2 4	P202-8 P202-12 P202-16 P202-20 P202-24 P202-28 P202-32	2-1/2 2.505	2-7/8 2.881	2 1/4 2 1/2 3	P251-18 P251-20 P251-24
1-15/16 1.9415	2-5/16 2.3175	2 2 1/2 3 4	P193-16 P193-20 P193-24 P193-32					2-1/2 2.505	3 3.006	2 3 4	P252-16 P252-24 P252-32
2 2.004	2-1/4 2.255	1 1 1/2 2 2 1/2 3	P200-8 P200-12 P200-16 P200-20 P200-24	2-1/4 2.254	2-5/8 2.631	2 2 1/2 3	P225-16 P225-20 P225-24	2-3/4 2.755	3-1/4 3.257	2 3 4	P275-16 P275-24 P275-32
				2-1/4 2.254	2-3/4 2.756	2 3	P226-16 P226-24	3 3.006	3-1/4 3.257	2 3	P300-16 P300-24
2 2.004	2-3/8 2.380	1 1/2 1 3/4 2 2 1/2 2 3/4 3 3 1/2 4	P201-12 P201-14 P201-16 P201-20 P201-22 P201-24 P201-28 P201-32	2-3/8 2.379	2-3/4 2.756	2 2 1/2 3	P237-16 P237-20 P237-24	3 3.006	3-1/2 3.507	2 2 1/2 3 4	P301-16 P301-20 P301-24 P301-32
				2-1/2 2.505	2-3/4 2.756	2 3 4	P250-16 P250-24 P250-32	3-1/2 3.507	4 4.008	3 3 1/2 4	P350-24 P350-28 P350-32
								4 4.008	4-1/2 4.509	4	P400-32

DIMENSIONAL TOLERANCES

ASTM B-202 TYPE I CLASS A SINTERED POWDERED BRONZE

PLAIN BEARINGS

ID OR OD SIZE	TOLERANCE
— to 1.510	— .001
1.511 to 2.510	— .0015
2.511 to 3.010	— .002
3.011 to 4.010	— .003
4.011 to 5.010	— .004
LENGTH SIZE	TOLERANCE
— to 1.495	± .005
1.496 to 2.990	± .0075
2.991 to 4.985	± .010

FLANGE BEARINGS

ID OR OD SAME AS PLAIN BEARINGS

FLANGE OD SIZE	TOLERANCE
— to 1.510	± .005
1.511 to 2.510	± .0075
2.511 to 3.010	± .010
3.011 to 4.010	± .015
4.011 to 5.010	± .020

FLANGE THICKNESS—TOLERANCE DEPENDS ON OD OF FLANGE

FLANGE OD	THICKNESS TOLERANCE
— to 1.510	± .0025
1.511 to 2.510	± .00375
2.511 to 3.010	± .005
3.011 to 4.010	± .0075
4.011 to 5.010	± .010

THRUST BEARINGS

ID SIZE	TOLERANCE
— to 1.510	+ .004
1.511 to 2.510	+ .006
2.511 to 3.010	+ .008
3.011 to 4.010	+ .012
4.011 to 5.010	+ .016

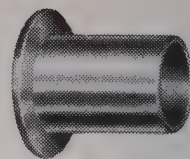
OD TOLERANCE SAME AS FLANGE OD.
THICKNESS SAME AS FLANGE THICKNESS OF FLANGE BEARING.

The chemical and physical specifications of the bronze used in the Bunting standard stock sizes of sintered bronze bearings are ASTM-B202, Type I, Class A. This material also meets the requirements of the following specifications:—SAE Type I, Class A, AMS 4805 and MIL-B-5687A Type I Comp. A. The basic composition of the material is 90% copper and 10% tin of high purity.

After forming, sintering and sizing, the bearings are oil impregnated to provide a supply of lubricant which is metered by the bearing to the shaft during rotation. This modern alloy with its built-in supply of oil is the simplest answer to countless bearing problems.

NEED HELP ON BEARINGS—CALL US

BUNTING
SINTERED POWDERED BRONZE
FLANGE BEARINGS

OIL FILLED**SELF LUBRICATING**

Inside Diam.	Outside Diam.	Length Overall	Flange O.D.	Thick	Part No.	Inside Diam.	Outside Diam.	Length Overall	Flange O.D.	Thick	Part No.
3/16 .1895	5/16 .3155	3/8	7/16 .4405	1/16 .0625	FL19-3	1/2 .502	3/4 .753	1/2 3/4 1 1 1/4	1 1.004	1/8 .125	FL52-4 FL52-6 FL52-8 FL52-10
1/4 .252	3/8 .378	1/4 3/8 1/2 5/8 3/4	1/2 .503	1/16 .0625	FL26-2 FL26-3 FL26-4 FL26-5 FL26-6	5/8 .627	3/4 .753	5/8 3/4 1 1 1/8	1 1.004	1/8 .125	FL62-5 FL62-6 FL62-8 FL62-9
5/16 .3145	7/16 .4405	3/8 1/2 3/4	9/16 .5655	1/16 .0625	FL32-3 FL32-4 FL32-6	5/8 .627	13/16 .8165	3/4 1 1 1/4 1 1/2	1 1.004	1/8 .125	FL63-6 FL63-8 FL63-10 FL63-12
5/16 .3145	1/2 .503	3/8	11/16 .6905	1/16 .0625	FL33-3	5/8 .627	7/8 .879	1/2 3/4 1 1 1/4	1-1/8 1.129	1/8 .125	FL64-4 FL64-6 FL64-8 FL64-10
3/8 .377	1/2 .503	1/2 3/4 1	11/16 .6905	1/16 .0625	FL38-4 FL38-6 FL38-8	5/8 .627	1 1.004	1 1-1/4	1-1/4 1.254	3/16 .1875	FL66-8
3/8 .377	9/16 .5655	1/2 3/4	11/16 .6905	1/16 .0625	FL39-4 FL39-6	3/4 .752	7/8 .879	1/2 3/4	1-1/8 1.129	1/8 .125	FL75-4 FL75-6
3/8 .377	5/8 .628	1/2 3/4 1 1 1/4	7/8 .879	1/16 .0625	FL40-4 FL40-6 FL40-8 FL40-10	3/4 .752	15/16 .9415	3/4 1 1 1/8 1 1/4 1 1/2	1-1/4 1.254	1/8 .125	FL76-6 FL76-8 FL76-9 FL76-10 FL76-12
7/16 .4395	9/16 .5655	1/2 3/4	11/16 .6905	1/16 .0625	FL43-4 FL43-6	3/4 .752	1 1.004	5/8 3/4 1 1 1/8 1 1/4 1 1/2	1-1/4 1.254	3/16 .1875	FL77-5 FL77-6 FL77-8 FL77-9 FL77-10 FL77-12
7/16 .4395	5/8 .628	3/4 1 1/4	7/8 .879	1/8 .125	FL44-6 FL44-10	7/8 .877	1 1.004	1/2 3/4 1	1-1/4 1.254	3/16 .1875	FL87-4 FL87-6 FL87-8
1/2 .502	5/8 .628	3/8 1/2 3/4 1 1 1/4 1 1/2	7/8 .879	1/8 .125	FL50-3 FL50-4 FL50-6 FL50-8 FL50-10 FL50-12	7/8 .877	1-1/8 1.129	3/4 1 1 1/4 1 1/2 1 3/4	1-1/2 1.504	1/8 .125	FL89-6 FL89-8 FL89-10 FL89-12 FL89-14
1/2 .502	11/16 .6905	1/2 3/4	7/8 .879	1/8 .125	FL51-4 FL51-6						

FOR TOLERANCES, SEE PAGE 313

NEED HELP ON BEARINGS—CALL US

BUNTING SINTERED FLANGE BEARINGS—Continued

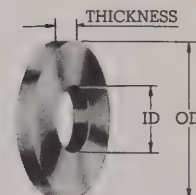
Inside Diam.	Outside Diam.	Length Overall	Flange O.D.	Thick	Part No.	Inside Diam.	Outside Diam.	Length Overall	Flange O.D.	Thick	Part No.
1 1.003	1-1/4 1.254	3/4 1 1 1/4 1 1/2	1-1/2 1.504	1/8 .125	FL102-6 FL102-8 FL102-10 FL102-12	1-1/2 1.504	1-3/4 1.755	1 1/2 2.005	2 2.005	3/16 .1875	FL150-12
1 1.003	1-3/8 1.379	3/4 1 1 1/2 1 3/4 2	1-5/8 1.630	3/16 .1875	FL104-6 FL104-8 FL104-12 FL104-14 FL104-16	1-5/8 1.629	2 2.005	2 2.255	2-1/4 2.255	3/16 .1875	FL163-16
1-1/4 1.2535	1-1/2 1.504	1 1 1/4 1 1/2 1 3/4	1-3/4 1.755	3/16 .1875	FL125-8 FL125-10 FL125-12 FL125-14	1-3/4 1.754	2-1/4 2.255	2 1/2 3.006	3 3.006	1/4 .250	FL177-20
						2 2.004	2-1/4 2.255	2 2.505	2-1/2 2.505	1/8 .125	FL200-16

BUNTING SINTERED POWDERED BRONZE

THRUST BEARINGS

SELF LUBRICATING

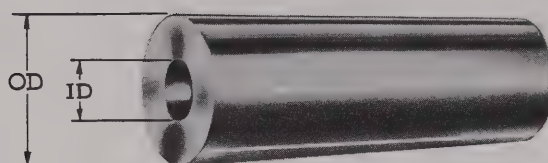
READY FOR ASSEMBLY



Inside Diam.	Outside Diam.	Thickness	Part No.	Inside Diam.	Outside Diam.	Thickness	Part No.
1/4 .252	5/8 .628	1/16	TW25	3/4 .752	1-9/16 1.5675	3/32	TW78
5/16 .3145	3/4 .753	1/16	TW31	3/4 .752	1-3/4 1.755	1/8	TW79
3/8 .377	3/4 .753	1/16	TW37	7/8 .877	1-1/2 1.504	1/8	TW87
7/16 .4395	3/4 .753	1/16	TW43	1 1.003	1-1/2 1.504	1/8	TW100
1/2 .502	3/4 .753	1/16	TW50	1 1.003	1-5/8 1.630	1/8	TW101
1/2 .502	1 1.004	1/16	TW51	1 1.003	2 2.005	1/8	TW102
		1/8	TW52				
9/16 .5645	1-1/4 1.254	1/8	TW56	1-1/4 1.2535	1-11/16 1.6925	1/8	TW125
5/8 .627	1 1.004	1/16	TW62	1-1/4 1.2535	2 2.005	1/8	TW126
		1/8	TW63				
5/8 .627	1-3/16 1.1915	3/32	TW64	1-1/2 1.504	2-1/2 2.505	1/8	TW150
5/8 .627	1-1/4 1.254	1/8	TW65	1-1/2 1.504	3-1/2 3.507	3/16	TW151
3/4 .752	1-1/4 1.254	1/16	TW75	1-3/4 1.754	2-5/8 2.631	1/8	TW175
		1/8	TW76				
3/4 .752	1-3/8 1.379	1/8	TW77	2 2.004	3 3.006	1/8	TW200
						1/4	TW201

FOR TOLERANCES, SEE PAGE 313

NEED HELP ON BEARINGS—CALL US

BUNTING**SINTERED POWDERED BRONZE****Oil Filled****BARS****Self Lubricating****TUBULAR POWDERED BRONZE BARS—6½" LONG**

TUBULAR POWDERED BRONZE BARS—6½" LONG													
Inside Diam.	Outside Diam.	Part No.	Inside Diam.	Outside Diam.	Part No.	Inside Diam.	Outside Diam.	Part No.	Inside Diam.	Outside Diam.	Part No.		
1/2	1 1 1/4 1 1/2	T48 T410 T412	1	1 1/2 1 5/8 1 3/4 2 2 1/4 2 1/2 3	T812 T813 T814 T816 T818 T820 T824	1 3/4	2 1/4 2 1/2 2 3/4 3 3 1/2	T1418 T1420 T1422 T1424 T1428	2 1/2	3 1/2 4 4 1/2	T2028 T2032 T2036		
5/8	1 1 1/8 1 1/4 1 1/2 1 3/4 2	T58 T59 T510 T512 T514 T516		1 1/4	1 3/4 2 2 1/4 2 1/2 3	T1014 T1016 T1018 T1020 T1024	2	2 3/4 3 3 1/4 4 4 1/2	T1622 T1624 T1626 T1632 T1636	2 3/4	3 3/4	T2230	
	3/4	1 1/4 1 1/2 1 3/4 2 2 1/4 2 1/2			T610 T612 T614 T616 T618 T620	1 1/2	2 2 1/4 2 1/2 2 3/4 3 3 1/2 4	T1216 T1218 T1220 T1222 T1224 T1228 T1232	2 1/4	3 3 1/4 3 1/2 3 3/4 4	T1824 T1826 T1828 T1830 T1832	3	3 3/4 4 4 1/2	T2430 T2432 T2436
7/8		1 3/8 1 1/2			T711 T712				2 3/8	3 3 1/2 4	T1924 T1928 T1932	3 1/4	4 1/4	T2634

SOLID POWDERED BRONZE BARS—6½" LONG

Outside Diam.	Part No.	Outside Diam.	Part No.	Outside Diam.	Part No.	Outside Diam.	Part No.
*1/4	S2	1	S8	1 3/4	S14	3	S24
**3/8	S3	1 1/8	S9	2 2 1/4 2 1/2 2 3/4	S16 S18 S20 S22	3 1/4	S26
1/2	S4	1 1/4	S10			3 1/2	S28
5/8	S5	1 3/8	S11			4 4 1/2	S32 S36
3/4	S6	1 1/2	S12				
7/8	S7	1 5/8	S13				

* (2" long)

** (3" long)

ALL BUNTING SINTERED BRONZE BARS FINISH MACHINED OD, 1/32" OVER NOMINAL SIZE.

NEED HELP ON BEARINGS—CALL US

HEIM UNIBAL SPHERICAL BEARINGS and SPHERICAL ROD ENDS

Heim Rod Ends and Self-Aligning Bearings were originally developed to fill a need for aircraft applications, but the features of this new bearing idea have since been recognized in many manufacturing fields and incorporated to improve performance of all types of machinery, such as:



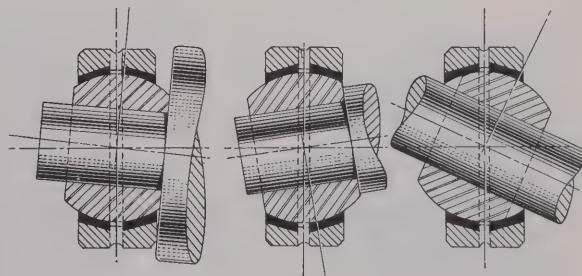
- AGRICULTURAL EQUIPMENT
- AIRCRAFT AND AIRCRAFT ACCESSORIES
- AUTOMATIC FEED MECHANISMS
- CANNING AND PACKING MACHINERY
- CARPET LOOMS
- CONSTRUCTION EQUIPMENT
- CONTROLS FOR MOTORS AND MOTOR VEHICLES
- DENTAL EQUIPMENT
- ELECTRIC FANS
- ELECTRICAL EQUIPMENT
- GOVERNOR CONTROLS
- HYDRAULIC EQUIPMENT
- LINKAGE MECHANISMS
- MACHINE TOOLS
- MARINE APPLICATIONS
- MATERIALS HANDLING EQUIPMENT
- OIL FIELD EQUIPMENT
- PAPER MAKING MACHINERY
- PITTMAN ARMS
- PRINTING PRESSES
- REFRIGERATORS
- SEWING MACHINES
- SHOE MACHINERY
- SPEED REDUCERS
- STEAM TURBINE CONTROLS
- TEXTILE MACHINERY AND LOOMS
- WASHING MACHINES AND LAUNDRY EQUIPMENT
- WOOD WORKING MACHINERY



Heim Unibal Spherical Bearings and Spherical Bearing Rod Ends have a greater carrying capacity than the conventional type since they have a greater surface supporting area. Because of this area, they are not subject to false brinelling. By

their very design, maximum correction of misalignment is obtained. Because of their revolutionary construction, they will take a greater radial and axial thrust load with resulting longer life.

The ball is made from SAE 52100 steel, hardened, precision ground and lapped. The bearing inserts, commonly called the race, are made of bearing bronze. The outer ring of the spherical bearings and the outer member of the rod end bearings can be made of almost any suitable material. Standard units are made from carbon steel.



Heim Unibal Spherical Bearings and Rod Ends are produced in standard and light series. Male and female rod ends can be furnished in both standard and light series.

Unibal Spherical Bearings are available in $\frac{1}{8}$ " to $1\frac{7}{8}$ " shaft sizes.

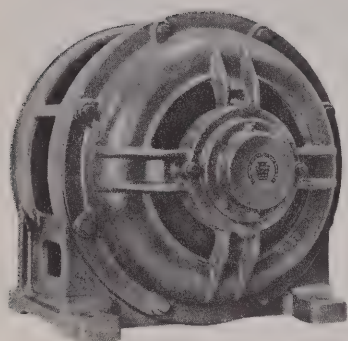
Rod Ends are available in $\frac{1}{8}$ " to $\frac{3}{4}$ " shaft sizes.

Complete Catalog Available on Request.

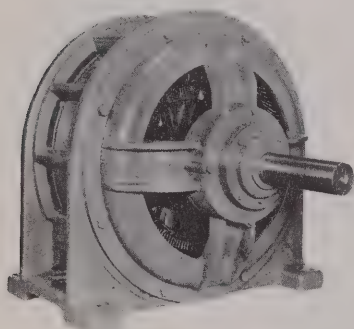
NEED HELP ON BEARINGS—CALL US

KEYSTONE END BELLS

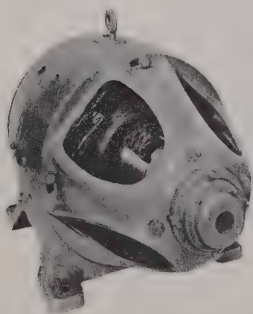
**Banish Repetitive Maintenance Costs with this
Simple Conversion to Ball Bearing Motor End Bells**



NEMA frame squirrel cage motor converted to ball bearings by Keystone end-bells.



Pinion end of older but widely used slip ring motor with Keystone end-bells.



Well known type of D-C general purpose motor with Keystone end-bells. Provisions for mounting the brush rigging and flat surfaces at openings to permit easy enclosure are the same as on original end-bells.

Keystone ball and roller bearing end-bells, brackets and housings quickly and effectively convert sleeve bearing motors—obsolescent by today's standards—into modern anti-friction bearing equipment.

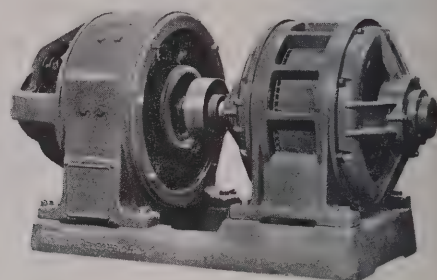
A few typical applications are shown on this page.

Users report marked reductions in the failure rate and savings in maintenance and rewinding expense of 50% to 75% after installing Keystone units.

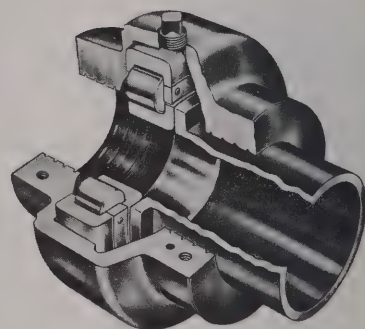
All industrial motors can be converted to anti-friction bearings to advantage, but it is especially important to convert motors that operate in dust-laden atmospheres, crane and other motors in less accessible locations, motors on off-level installations and motors at critical points on which a whole production line or process depends.

Keystone bearing conversion units are available for more than three thousand makes, types and ratings, practically all motors in general use.

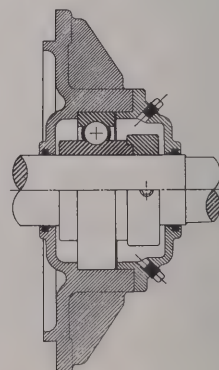
The bearings furnished with all but the largest end-bells are (with minor exceptions) Fafnir Heavy Series Wide Inner Ring ball bearings with Locking Collars. These bearings are ideally suited to this application, an important advantage being the simplicity and effectiveness with which they are mounted on the shaft. The inner ring extends laterally on both sides of the race proper, providing exceptional shaft support.



Motor-generator set converted to anti-friction bearings by three Keystone end-bells.



Cutaway view of Keystone Medium Duty mill motor conversion unit, showing housing, bearing and spacer sleeve.



KEYSTONE END BELLS

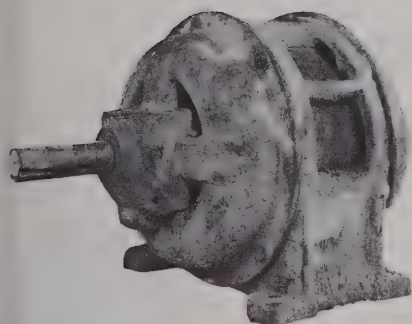
Convert Your Sleeve Bearing Motor in Your Own Plant to Better-than-new

- Complete modernization with anti-friction bearings!
- Quick and easy application by your own personnel!
- Down-time of key motors virtually eliminated!
- New winding and bearing life for motors!
- Maintenance and rewind expense reduced 50 to 75 percent!

Keystone ball bearing Conversion End Bells are furnished completely equipped with bearings, ready to install. Being exact replacements for the original sleeve bearing brackets, no machining beyond dressing the shaft for bearing fit is required in their installation. To insure correct fit, the bearings furnished have bores one-sixteenth inch less than the original journal

diameters and therefore the shaft journals must be turned to the dimensions given in printed instructions accompanying each set of Keystone end bells. Once the shaft has been dressed it will require no further attention when bearings are replaced since there will be no wear on the journals.

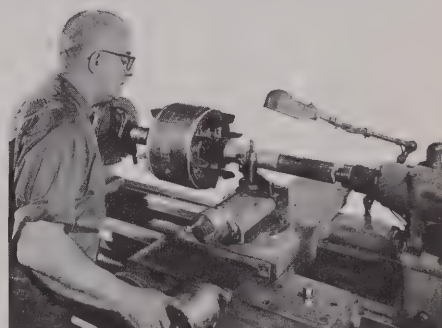
THERE IS A KEYSTONE CONVERSION FOR OVER 3,000 SLEEVE BEARING MOTORS



Oil on windings and interior surfaces catches dust and grime, causes gummy deposits in air passages, on windings, resulting in eventual failure.



First step is to remove outmoded sleeve-bearing endbells. This you have probably done many times.



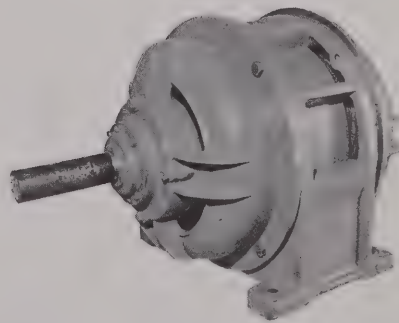
Next, dress the shaft for bearing fit. In most cases this is the *only machining required*.



The rotor and stator are cleaned, and are ready for the final assembly.



Final step is to install endbells on motor, grease the bearings, and the job is done.



Now you have a motor that is *better-than-new*, completely modernized with anti-friction ball or roller bearings!

KEYSTONE'S APPLICATION MANUAL IS AVAILABLE UPON REQUEST

NEED HELP ON BEARINGS—CALL US

HALLOWELL SHAFT COLLARS

Showing the knurled point of "Unbrako" Hollow Set Screw as used in "Hallowell" Steel Collars.

Hallowell collars are fitted with the *Knurled Point Self-Locking "Unbrako"* Hollow Set Screw that positively will not shake loose, regardless of how severe the vibration.

They are accurately machined all over, with a beautiful polished-like finish, thereby greatly adding to the appearance of any unit with which it may be used.

COLD ROLLED SOLID STEEL COLLARS

Bore Size (Inches)	Quantity per Package	Weight per box (Lbs.)	Outside Diam. (Inches)	Width (Inches)	Set Screw Size
1/16	50	.12	1/4	1/8	# 2 x 3/32
3/32	50	.14	9/32	1/8	# 2 x 3/32
1/8	50	.28	1/4	1/8	# 6 x 1/8
3/16	50	.40	7/16	1/4	# 8 x 1/8
1/4	50	.53	1/2	9/32	#10 x 1/8
5/16	50	1.19	5/8	11/32	#10 x 3/16
3/8	50	1.61	3/4	3/8	1 1/4 x 3/16
7/16	50	2.62	7/8	7/16	1 1/4 x 1/4
1/2	50	3.42	1	7/16	1 1/4 x 1/4
9/16	25	1.64	1	7/16	1 1/4 x 1/4
5/8	25	2.34	1 1/8	1 1/2	5/16 x 1/4
11/16	25	3.26	1 1/4	9/16	5/16 x 1/4
3/4	25	2.99	1 1/4	9/16	5/16 x 1/4
13/16	25	3.18	1 5/8	9/16	5/16 x 1/4
7/8	25	4.50	1 1/2	9/16	5/16 x 5/16
15/16	25	5.34	1 5/8	9/16	5/16 x 5/16
1	25	5.63	1 5/8	5/8	5/16 x 5/16
1 1/16	25	5.47	1 3/4	5/8	5/16 x 5/16
1 1/8	25	6.50	1 3/4	5/8	5/16 x 5/16
1 1/4	25	6.09	2	1 1/16	3/8 x 3/8
1 1/2	25	8.97	2	1 1/16	3/8 x 3/8
1 5/8	25	9.53	2 1/8	1 1/16	3/8 x 3/8
1 3/4	25	10.34	2 1/8	3/4	3/8 x 3/8
1 7/8	25	10.53	2 1/4	3/4	3/8 x 3/8
2	25	12.09	2 1/4	3/4	3/8 x 3/8
2 1/16	10	6.75	2 1/2	13/16	3/8 x 3/8
2 1/8	10	6.38	2 1/2	13/16	3/8 x 3/8
2 1/4	10	6.00	2 1/2	13/16	3/8 x 3/8
2 1/2	10	8.41	2 3/4	7/8	1/2 x 1/2
2 5/8	10	8.06	2 3/4	7/8	1/2 x 1/2
2 3/4	10	7.63	2 3/4	7/8	1/2 x 1/2
2 7/8	10	9.84	3	7/8	1/2 x 1/2
3	10	9.38	3	7/8	1/2 x 1/2
2 1/8	5	4.28	3	7/8	1/2 x 1/2
2 3/16	5	6.03	3 1/4	15/16	1/2 x 1/2
2 1/4	5	5.66	3 1/4	15/16	1/2 x 1/2
2 5/16	5	5.44	3 1/4	15/16	1/2 x 1/2
2 3/8	5	5.31	3 1/4	15/16	1/2 x 1/2
2 7/16	5	6.88	3 1/2	1	1/2 x 1/2
2 1/2	5	6.59	3 1/2	1	1/2 x 1/2
2 9/16	5	9.25	3 3/4	1 1/8	1/2 x 9/16
2 11/16	5	10.66	4	1 1/8	1/2 x 5/8
2 3/4	5	10.38	4	1 1/8	1/2 x 5/8
2 5/4	5	11.59	4 1/4	1 1/8	1/2 x 5/8
3	5	10.94	4 1/4	1 1/8	1/2 x 5/8

WHY YOU SHOULD USE "HALLOWELL"

BECAUSE being made from Cold Rolled Steel, it cannot crack or the threads strip when set screw is tightened up.

BECAUSE the strength of the "Unbrako" Hollow Set Screw eliminates all danger of its being damaged when tightened up.

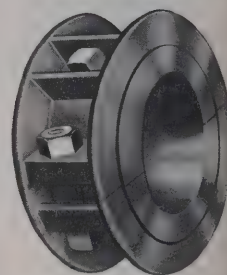
BECAUSE the combination of "Unbrako" Hollow Set Screw strength and Knurled Point Self-Locking qualities positively prevents the collar from shifting or sliding.

SOLID CAST IRON COLLARS

Bore Size (Inches)	Weight (Pounds each)	Outside Diam. (Inches)	Width (Inches)	Set Screw Size
3 3/16	7.0	5 1/2	1 5/8	1/2 x 3/4
3 1/4	7.0	5 1/2	1 5/8	1/2 x 3/4
3 7/16	7.6	5 3/4	1 3/4	1/2 x 1
3 1/2	7.6	5 3/4	1 3/4	1/2 x 1
3 11/16	8.8	6 1/4	1 3/4	1/2 x 1
3 15/16	10.0	6 1/2	1 7/8	1/2 x 1 1/4
4 3/16	10.8	7	1 7/8	1/2 x 1 1/4
4 7/16	12.0	7 1/4	2	1/2 x 1 1/2
4 15/16	16.3	8	2 1/8	1/2 x 1 1/2

CAST IRON SPLIT COLLARS

Bore Size (Inches)	Weight (Pounds each)	Outside Diam. (Inches)	Width (Inches)	Set Screw Size
1 5/16	.9	2 11/16	1	5/16 x 1/2
1	.9	2 11/16	1	5/16 x 1/2
1 3/16	1.3	3 1/8	1 1/4	3/8 x 3/8
1 1/4	1.3	3 1/8	1 1/4	3/8 x 3/8
1 5/16	1.8	3 3/8	1 1/16	7/16 x 1/2
1 7/16	1.8	3 3/8	1 1/16	7/16 x 1/2
1 1/2	1.8	3 3/8	1 1/16	7/16 x 1/2
1 5/8	2.4	3 3/4	1 1/16	7/16 x 1/2
1 11/16	2.4	3 3/4	1 1/16	7/16 x 1/2
1 3/4	2.4	3 3/4	1 1/16	7/16 x 1/2
1 13/16	2.6	4 1/8	1 1/4	7/16 x 1/2
1 7/8	2.6	4 1/8	1 3/4	1/2 x 1/2
1 15/16	2.6	4 1/8	1 3/4	1/2 x 1/2
2	2.6	4 1/8	1 3/4	1/2 x 1/2
2 3/16	3.4	4 3/4	1 3/8	1/2 x 5/8
2 1/4	3.4	4 3/4	1 1/8	1/2 x 5/8
2 7/16	4.3	4 3/4	2	1/2 x 5/8
2 1/2	4.3	4 3/4	2	1/2 x 5/8
2 11/16	5.4	5 5/8	2 1/16	1/2 x 3/4
2 3/4	5.4	5 5/8	2 1/16	1/2 x 3/4
2 5/16	6.3	5 5/8	2 5/16	1/2 x 3/4
3	6.3	5 5/8	2 5/16	1/2 x 3/4
3 3/16	7.9	6 1/8	2 3/8	1/2 x 3/4
3 1/4	7.9	6 1/8	2 3/8	1/2 x 3/4
3 7/16	8.9	6 1/8	2 5/16	1/2 x 1
3 1/2	8.9	6 1/8	2 5/16	1/2 x 1
3 11/16	10.6	6 13/16	2 5/8	1/2 x 1
3 3/4	10.6	6 13/16	2 5/8	1/2 x 1
3 15/16	12.8	7 3/8	2 3/4	1/2 x 1 1/4
4	12.8	7 3/8	2 3/4	1/2 x 1 1/4
4 3/16	15.5	7 3/4	3	1/2 x 1 1/4
4 1/4	15.5	7 3/4	3 1/16	1/2 x 1 1/4
4 7/16	17.0	8 1/8	3 1/16	1/2 x 1 1/2
4 1/2	17.0	8 1/8	3 1/16	1/2 x 1 1/2
4 15/16	20.0	8 3/4	3 1/2	1/2 x 1 1/2



Collar sizes up to 3" have one set screw; large sizes have two.

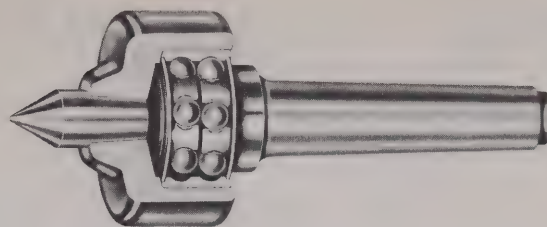
Projecting flange protects all bolts and set screws



LIVE CENTERS

Super Multi-Duty

This general purpose, medium duty center gives you 6 interchangeable points for exceptional versatility. Points are easily changed on the job to match your workpiece. Center has rotating housing on a fixed



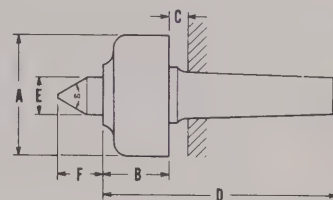
shank, and high capacity shielded bearings. Maintains accuracy of .0003" F.I.R. All parts are hardened and ground for extra long life, and to withstand rough use. Replacement points are available for all centers.

Load Rating Lbs. @ 100 rpm*					Dimensions						
Morse Taper	Max. Wt. Work	Thrust Load**	Cat. No. (Complete Center)	Cat. No. (Point Only)							
1 2 3	750	1170	49-011 49-021 49-031	49-001 49-001 49-001	2	1 ⁵ / ₁₆	5 ¹ / ₁₆ 3 ³ / ₈ 3 ³ / ₈	3 ³ / ₄ 4 ¹ / ₄ 4 ¹ / ₈	5 ⁵ / ₈ 5 ⁵ / ₈ 5 ⁵ / ₈	3 ³ / ₄ 3 ³ / ₄ 3 ³ / ₄	..
3 4	1200	1760	49-131 49-141	49-101 49-101	2 ¹ / ₂	1 ¹⁷ / ₃₂	3 ³ / ₈ 7 ¹ / ₁₆	5 ³ / ₃₂ 6 ¹ / ₃₂	3 ³ / ₄	5 ⁵ / ₆₄	..
5 6 Str. 1 ¹ / ₂ " Str. 1 ³ / ₄ "	3400	4780	49-251 49-261 49-281 49-291	49-201 49-201 49-201 49-201	3 ³ / ₄	2 ³ / ₁₆	7 ¹ / ₁₆ 7 ¹ / ₁₆ .. 7 ¹ / ₁₆	7 ¹³ / ₁₆ 9 ⁷ / ₈ 6 ¹¹ / ₁₆ 7 ¹⁵ / ₁₆	1 ¹ / ₄	1 ¹⁹ / ₆₄	..
1 2 3	750	1170	49-012 49-022 49-032	49-002 49-002 49-002	2	1 ⁵ / ₁₆	5 ¹ / ₁₆ 3 ³ / ₈ 3 ³ / ₈	3 ³ / ₄ 4 ¹ / ₄ 4 ¹ / ₈	5 ⁵ / ₈ 5 ⁵ / ₈ 5 ⁵ / ₈	5 ⁵ / ₆₄	..
3 4	1175	1760	49-132 49-142	49-102 49-102	2 ¹ / ₂	1 ¹⁷ / ₃₂	3 ³ / ₈ 7 ¹ / ₁₆	5 ³ / ₃₂ 6 ¹ / ₃₂	3 ³ / ₄	2 ⁹ / ₃₂	..
5 6 Str. 1 ¹ / ₂ " Str. 1 ³ / ₄ "	3350	4780	49-252 49-262 49-282 49-292	49-202 49-202 49-202 49-202	3 ³ / ₄	2 ³ / ₁₆	7 ¹ / ₁₆ 7 ¹ / ₁₆ .. 7 ¹ / ₁₆	7 ¹³ / ₁₆ 9 ⁷ / ₈ 6 ¹¹ / ₁₆ 7 ¹⁵ / ₁₆	1 ¹ / ₄	1 ¹¹ / ₃₂	..
1 2 3	575	1170	49-013 49-023 49-033	49-003 49-003 49-003	2	1 ⁵ / ₁₆	5 ¹ / ₁₆ 3 ³ / ₈ 3 ³ / ₈	3 ³ / ₄ 4 ¹ / ₄ 4 ¹ / ₈	5 ⁵ / ₈ 5 ⁵ / ₈ 5 ⁵ / ₈	6 ³ / ₆₄	..
3 4	900	1760	49-133 49-143	49-103 49-103	2 ¹ / ₂	1 ¹⁷ / ₃₂	3 ³ / ₈ 7 ¹ / ₁₆	5 ³ / ₃₂ 6 ¹ / ₃₂	3 ³ / ₄	1 ¹⁵ / ₆₄	..
5 6 Str. 1 ¹ / ₂ " Str. 1 ³ / ₄ "	2800	4780	49-253 49-263 49-283 49-293	49-203 49-203 49-203 49-203	3 ³ / ₄	2 ³ / ₁₆	7 ¹ / ₁₆ 7 ¹ / ₁₆ .. 7 ¹ / ₁₆	7 ¹³ / ₁₆ 9 ⁷ / ₈ 6 ¹¹ / ₁₆ 7 ¹⁵ / ₁₆	1 ¹ / ₄	1 ²⁷ / ₃₂	..
1 2 3	750	1170	49-014 49-024 49-034	49-004 49-004 49-004	2	1 ⁵ / ₁₆	5 ¹ / ₁₆ 3 ³ / ₈ 3 ³ / ₈	3 ³ / ₄ 4 ¹ / ₄ 4 ¹ / ₈	2 ³ / ₃₂ 2 ³ / ₃₂ 2 ³ / ₃₂	5 ⁵ / ₈ 5 ⁵ / ₈ 5 ⁵ / ₈	2 ⁵ / ₃₂
3 4	1250	1760	49-134 49-144	49-104 49-104	2 ¹ / ₂	1 ¹⁷ / ₃₂	3 ³ / ₈ 7 ¹ / ₁₆	5 ³ / ₃₂ 6 ¹ / ₃₂	3 ¹ / ₃₂ 2 ³ / ₃₂	2 ³ / ₃₂ 1 ¹ / ₃₂	..
5 6 Str. 1 ¹ / ₂ " Str. 1 ³ / ₄ "	4200	4780	49-254 49-264 49-284 49-294	49-204 49-204 49-204 49-204	3 ³ / ₄	2 ³ / ₁₆	7 ¹ / ₁₆ 7 ¹ / ₁₆ .. 7 ¹ / ₁₆	7 ¹³ / ₁₆ 9 ⁷ / ₈ 6 ¹¹ / ₁₆ 7 ¹⁵ / ₁₆	1 ⁵ / ₁₆ 1 ⁵ / ₁₆ 1 ⁵ / ₁₆ 1 ⁵ / ₁₆	3 ³ / ₄ 3 ³ / ₄ 3 ³ / ₄ 3 ³ / ₄	1 ¹ / ₂
1 2 3	750	1170	49-015 49-025 49-035	49-005 49-005 49-005	2	1 ⁵ / ₁₆	5 ¹ / ₁₆ 3 ³ / ₈ 3 ³ / ₈	3 ³ / ₄ 4 ¹ / ₄ 4 ¹ / ₈	2 ³ / ₃₂ 2 ³ / ₃₂ 2 ³ / ₃₂	5 ⁵ / ₈ 5 ⁵ / ₈ 5 ⁵ / ₈	1 ⁵ / ₁₆
3 4	1250	1760	49-135 49-145	49-105 49-105	2 ¹ / ₂	1 ¹⁷ / ₃₂	3 ³ / ₈ 7 ¹ / ₁₆	5 ³ / ₃₂ 6 ¹ / ₃₂	3 ¹ / ₃₂ 2 ³ / ₃₂	2 ³ / ₃₂ 1 ¹ / ₃₂	..
5 6 Str. 1 ¹ / ₂ " Str. 1 ³ / ₄ "	4200	4780	49-255 49-265 49-285 49-295	49-205 49-205 49-205 49-205	3 ³ / ₄	2 ³ / ₁₆	7 ¹ / ₁₆ 7 ¹ / ₁₆ .. 7 ¹ / ₁₆	7 ¹³ / ₁₆ 9 ⁷ / ₈ 6 ¹¹ / ₁₆ 7 ¹⁵ / ₁₆	1 ⁵ / ₁₆ 1 ⁵ / ₁₆ 1 ⁵ / ₁₆ 1 ⁵ / ₁₆	3 ³ / ₄ 3 ³ / ₄ 3 ³ / ₄ 3 ³ / ₄	1 ¹ / ₂
1 2 3	....	1170	49-016 49-026 49-036	49-006 49-006 49-006	2	1 ⁵ / ₁₆	5 ¹ / ₁₆ 3 ³ / ₈ 3 ³ / ₈	3 ³ / ₄ 4 ¹ / ₄ 4 ¹ / ₈	.. .. ..	5 ⁵ / ₈ 5 ⁵ / ₈ 5 ⁵ / ₈	3 ³ / ₄
3 4	....	1760	49-136 49-146	49-106 49-106	2 ¹ / ₂	1 ¹⁷ / ₃₂	3 ³ / ₈ 7 ¹ / ₁₆	5 ³ / ₃₂ 6 ¹ / ₃₂	.. ..	5 ⁵ / ₈ 5 ⁵ / ₈	1
5 6 Str. 1 ¹ / ₂ " Str. 1 ³ / ₄"	....	4780	49-256 49-266 49-286 49-296	49-206 49-206 49-206 49-206	3 ³ / ₄	2 ³ / ₁₆	7 ¹ / ₁₆ 7 ¹ / ₁₆ .. 7 ¹ / ₁₆	7 ¹³ / ₁₆ 9 ⁷ / ₈ 6 ¹¹ / ₁₆ 7 ¹⁵ / ₁₆	.. .. .. ..	3 ³ / ₄ 3 ³ / ₄ 3 ³ / ₄ 3 ³ / ₄	1 ¹ / ₁₆

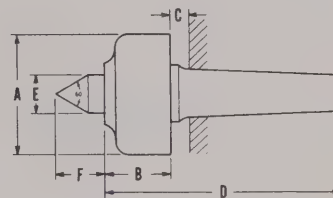
*Based on 2,500 hours average bearing life.

**Based on maximum thrust capacity of bearings.

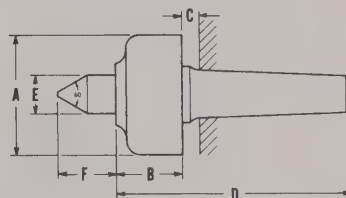
MALE POINT,
STANDARD



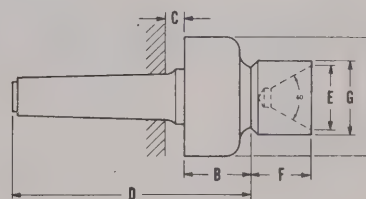
MALE POINT,
SHARP



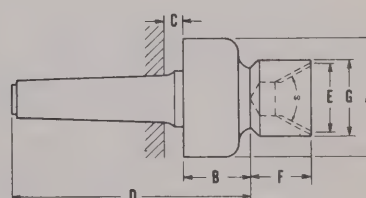
MALE POINT,
EXTENDED



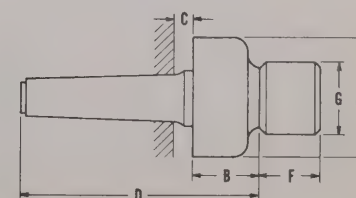
FEMALE POINT,
PLAIN



FEMALE POINT,
WITH LANDS



STOP POINT



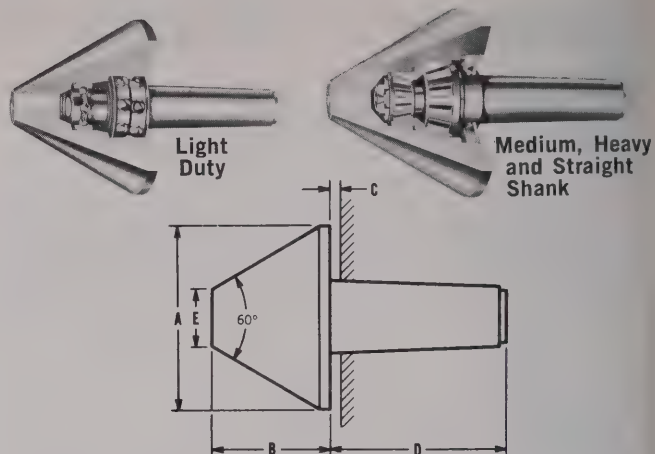


LIVE CENTERS

Bull-Nose Series

Bull Nose centers are built for extra-heavy duty operations where unusually high thrust capacities are needed for machining pipe and similar hollow shaped materials. The nose section has been made extra thick so it can be ground down again and again to extend service life.

In Medium Duty, Heavy Duty and Straight shank models, two extra-heavy duty opposed and preloaded tapered roller bearings in a rotating housing keep runout accuracy to .0003" F.I.R. Steel-protected seal retains grease, keeps chips, dirt, and coolants out of bearings. Light Duty model has double row angular



contact shielded ball bearing, and a single row ball bearing.

Load Rating Lbs. @ 100 rpm*					Cat. No.	Dimensions				
Morse Taper	Head Dia.		Max. Wt. Work	Thrust**		A	B	C	D	E
	Min.	Max.								
Light										
1	1 1/2"	2 7/8"	1400	1170	49-501	2 7/8"	2 13/32"	3/16"	2 7/16"	1 1/2"
2	1 1/2"	2 7/8"	1400	1170	49-502	2 7/8"	2 13/32"	3/8"	2 13/16"	1 1/2"
3	1 1/2"	2 7/8"	1400	1170	49-503	2 7/8"	2 13/32"	3/8"	3 1/16"	1 1/2"
Medium										
4	3 3/4"	4"	7200	5600	49-514	4	3 11/16"	1/4"	4 7/16"	3/4"
5	1 1/8"	5"	11000	8000	49-525	5	4 1/8"	1/4"	5 1/16"	1
6	1 1/2"	7"	19200	14600	49-536	7	5 5/8"	1/4"	7 11/16"	1 1/2
7	3 1/2"	8 1/2"	23400	16800	49-547	8 1/2	5 5/8"	3/8"	10 1/2"	3
Heavy										
3	3 3/4"	4"	7200	5600	49-513	4	3 11/16"	3/16"	3 1/2"	3/4"
4	1 1/8"	5"	11000	8000	49-524	5	4 1/8"	3/16"	4 1/16"	1
5	1 1/2"	7"	19200	14600	49-535	7	5 5/8"	3/16"	5 1/16"	1 1/2
6	3 1/2"	8 1/2"	23400	16800	49-546	8 1/2	5 5/8"	3/16"	7 11/16"	3
7	4 1/2"	10 1/2"	38500	24400	49-557	10	6 3/4"	3/8"	10 1/2"	4
7	7 1/2"	14 1/2"	38500	24400	49-577***	14	6 3/2"	3/8"	10 1/2"	7

Load Rating Lbs. @ 100 rpm*					Cat. No.	Dimensions				
Size	Head Dia.		Max. Wt. Work	Thrust**		A	B	C	D	E
	Min.	Max.								
Straight Shank										
1"	¾"	4"	7200	5600	49-611	4	3 11/16	..	3 3/8	¾
1 ¼"	¾"	4"	7200	5600	49-612	4	3 11/16	..	4 5/16	¾
1 ½"	1"	5"	11000	8000	49-623	5	4 1/8	..	4 5/16	1
1 ¾"	1"	5"	11000	8000	49-624	5	4 1/8	..	5 1/16	1
1 ¾"	1 ½"	7"	19200	14600	49-634	7	5 3/8	..	5 1/16	1 ½
2"	1 ½"	7"	19200	14600	49-635	7	5 3/8	..	7 3/16	1 ½
2 ½"	3"	8 ½"	23400	16800	49-646	8 ½	5 5/8	..	7 3/16	3
2 ¾"	3"	8 ½"	23400	16800	49-647	8 ½	5 5/8	..	10 3/8	3
2 ¾"	4"	10"	38500	24400	49-657	10	6 ¼	..	7 3/16	4
2 ¾"	7"	14"	38500	24400	49-677***	14	6 ½	..	7 3/16	7
3"	4"	10"	38500	24400	49-658	10	6 ¼	..	10 3/8	4
3"	7"	14"	38500	24400	49-678***	14	6 ½	..	10 3/8	7

*Based on 2,500 hours average bearing life.

**Based on maximum thrust capacity of bearings.

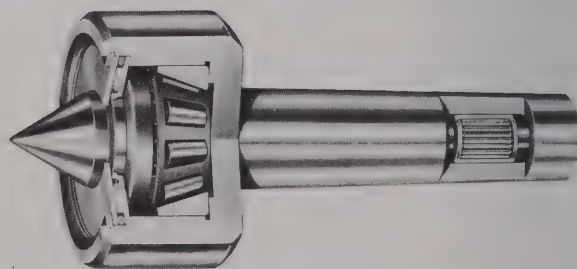
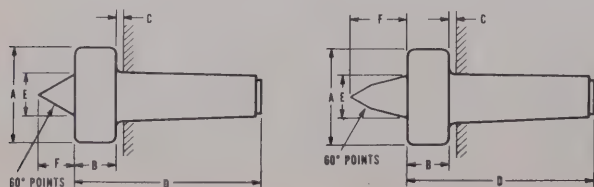
***Manufactured on request.



LIVE CENTERS

Heavy Duty Series

Especially built to handle big jobs to close tolerances and to withstand shock load conditions. Extra-rugged construction—with all parts hardened and ground—holds up under toughest turning operations. The Heavy Duty Live Center has a steep angle tapered roller bearing up front and a stabilizing needle bearing in the shank. Maintains accuracy to .0003" F.I.R. Available with either standard or extended points.



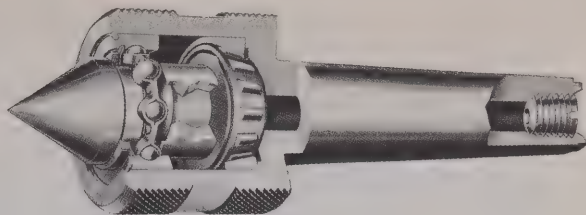
Load Rating Lbs. @ 100 rpm*										
Morse Taper	Max. Wt. Work	Thrust**	Catalog Number	Dimensions						
				A	B	C	D	E	F	
Standard Points										
3	4480	3800	49-431	2 ⁵ / ₈	1 ¹³ / ₁₆	3 ³ / ₁₆	5 ³ / ₁₆	1	7 ⁷ / ₈	
4	6100	5600	49-441	3 ¹ / ₈	1 ¹³ / ₁₆	1 ¹ / ₄	6 ¹ / ₈	1 ¹ / ₄	1 ¹³ / ₁₆	
5	12800	10500	49-451	4 ¹ / ₄	2 ⁵ / ₁₆	1 ¹ / ₄	7 ³ / ₄	1 ³ / ₄	1 ¹ / ₂	
6	18600	14600	49-461	5	2 ¹¹ / ₁₆	5 ⁵ / ₁₆	10 ¹ / ₄	2	1 ¹¹ / ₁₆	
7	25800	20000	49-471	6	3 ¹ / ₈	3 ³ / ₈	13 ⁷ / ₁₆	2 ¹ / ₄	1 ⁷ / ₈	
Extended Points										
3	4320	3800	49-432	2 ⁵ / ₈	1 ¹³ / ₁₆	3 ³ / ₁₆	5 ³ / ₁₆	1	1 ⁵ / ₁₆	
4	5900	5600	49-442	3 ¹ / ₈	1 ¹³ / ₁₆	1 ¹ / ₄	6 ¹ / ₈	1 ¹ / ₄	1 ¹³ / ₁₆	
5	12400	10500	49-452	4 ¹ / ₄	2 ⁵ / ₁₆	1 ¹ / ₄	7 ³ / ₄	1 ³ / ₄	2 ⁵ / ₁₆	
6	18000	14600	49-462	5	2 ¹¹ / ₁₆	5 ⁵ / ₁₆	10 ¹ / ₄	2	2 ⁵ / ₁₆	
7	25000	20000	49-472	6	3 ¹ / ₈	3 ³ / ₈	13 ⁷ / ₁₆	2 ¹ / ₄	2 ¹³ / ₁₆	



LIVE CENTERS

Multi-Duty Series

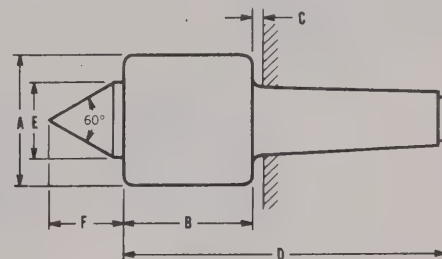
A good, economical center for general-purpose lathe work where load and accuracy requirements are not critical, especially on lightweight material. Three interchangeable points adapt center to your changing workpieces or machining methods. (Male point is standard.) The thrust load is carried by a tapered



roller bearing, the radial load by a ball bearing. The design provides rigidity, and maintains accuracy. Short overhang eliminates vibration and reduces deflection, yet permits ample tool clearance.

Size	Load Rating 100 rpm*			Catalog Number	Dimensions					
	Morse Taper	Max. Wt. Work	Thrust		A	B	C	D	E	F
1 MA	1	550	350	47-001	1 3/4	1 9/16	3 1/16	3 7/8	7/8	7/8
2 MA	2	700	350	47-002	1 3/4	1 9/16	3 1/16	4 5/16	7/8	7/8
3 MA	3	700	350	47-003	1 3/4	1 9/16	3 1/16	4 13/16	7/8	7/8
3 MB	3	1200	600	47-008	2	2 1/16	3 1/16	5 1/16	1	1
4 MB	4	1200	600	47-009	2	2 1/16	3 1/16	6 5/16	1	1
4 MC	4	1500	750	47-013	2 5/8	2 5/8	3 1/16	6 7/8	1 3/8	1 11/32
5 MC	5	1500	750	47-014	2 5/8	2 5/8	3 1/16	8	1 3/8	1 11/32

*Based on 2,500 hours average bearing life.



MALE POINTS



FEMALE POINTS (PLAIN)



FEMALE POINTS (LANDS)

	Catalog Number
MA Size Center	K-1051
MB Size Center	K-1053
MC Size Center	K-1052

	Catalog Number
MA Size Center; 3/8" to 3/4" Work Size	K-1056
MB Size Center; 3/8" to 1" Work Size	K-1057
MC Size Center; 3/8" to 1 1/4" Work Size	K-1058

	Catalog Number
MA Size Center; 3/8" to 3/4" Work Size	K-1059
MB Size Center; 3/8" to 1" Work Size	K-1060
MC Size Center; 3/8" to 1 1/4" Work Size	K-1061

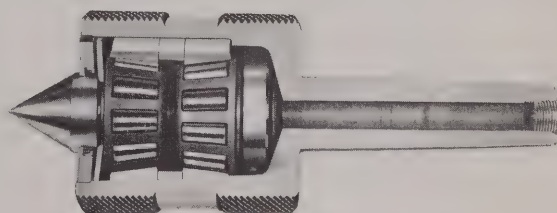


LIVE CENTERS

Universal Series

A top quality Live Center designed and manufactured for unsurpassed accuracy and high load carrying capacity.

The twin high precision tapered roller bearings are pre-loaded after assembly. The point is ground in its



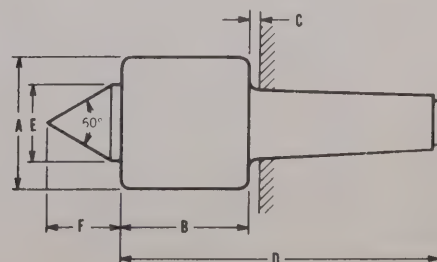
own bearings with a tolerance of plus or minus .0001" F.I.R. Housing and working parts are hardened and ground. A double seal consists of stationary hycar sealing ring and a slinger, rotating with the point.

The hycar ring in the anodized aluminum cap keeps out coolant, dirt and chips while the slinger keeps grease in.

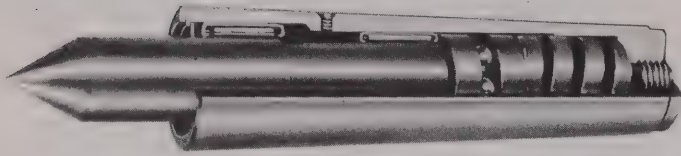
Load Rating Lbs. @ rpm*			Catalog Number	Dimensions					
Taper	Max. Wt. Work	Thrust		A	B	C	D	E	F
2 Morse	1030	515	47-072	2	2 9/32	3 1/16	5 1/32	7/8	1 3/16
3 Morse	1850	925	47-073	2 7/16	2 11/16	3 1/16	6 1/16	1	1 31/32
4 Morse	2980	1490	47-074	2 13/16	3 1/8	3 1/16	7 3/8	1 1/4	1 3/16
5 Morse	4260	2130	47-075	3 1/16	3 3/8	3 1/16	9 3/16	1 3/8	1 3/4
6 Jarno	1030	515	47-126	2	2 9/32	3 1/16	5 13/32	7/8	1 3/16
9 Jarno	1850	925	47-129	2 7/16	2 11/16	3 1/16	7 3/8	1	1 31/32
7 B & S	1030	515	47-137	2	2 9/32	3 1/16	5 13/32	7/8	1 3/16
8 B & S	1850	925	47-138	2 7/16	2 11/16	3 1/16	6 1/16	1	1 31/32
9 B & S	1850	925	47-139	2 7/16	2 11/16	3 1/16	7 3/8	1	1 31/32

*Based on 2,500 hours per average bearing life.

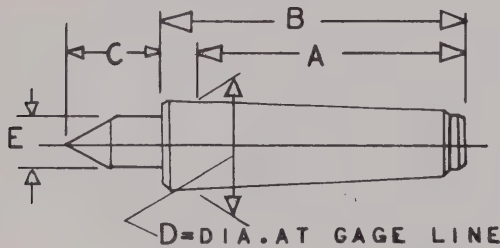
NOTE: B & S tapers 10 thru 12 manufactured on request.
Jarno tapers 8 thru 16 manufactured on request.



"NIROL" SPRING LOADED NEEDLE BEARING LIVE CENTER



The Nirol Center is constructed with a heavy, powerful spring which automatically compensates for work expansion due to heating, and avoids the continual resetting of the tailstock. The extremely small overhang eliminates vibration and chatter. Rotating center runs true within .0002" accuracy. Rugged-neat-compact.



MORSE TAPER

Morse Taper	A	B	C	D	E
2	$2\frac{9}{16}$	3	$\frac{3}{4}$	.700	$\frac{3}{8}$
3	$3\frac{3}{16}$	$3\frac{3}{4}$	1	.938	$\frac{9}{16}$
4	$4\frac{1}{16}$	$4\frac{5}{8}$	$1\frac{7}{16}$	1.231	$\frac{3}{4}$
5	$5\frac{3}{16}$	$6\frac{1}{16}$	2	1.748	$1\frac{1}{8}$
6	$7\frac{1}{4}$	$8\frac{1}{4}$	$2\frac{3}{4}$	2.494	$1\frac{5}{8}$
7	10	$11\frac{1}{4}$	$3\frac{9}{16}$	3.270	$2\frac{1}{8}$

JARNO TAPER

Jarno Taper	A	B	C	D	E
6	3	$3\frac{1}{4}$	$\frac{3}{4}$	.750	$\frac{3}{8}$
7	$3\frac{1}{2}$	4	$\frac{15}{16}$	.875	$\frac{1}{2}$
8	4	$4\frac{3}{8}$	$1\frac{1}{32}$	1.000	$\frac{9}{16}$
9	$4\frac{3}{4}$	5	$1\frac{3}{16}$	1.125	$\frac{5}{8}$
10	5	$5\frac{1}{2}$	$1\frac{3}{8}$	1.250	$\frac{3}{4}$
11	$5\frac{1}{2}$	6	$1\frac{1}{2}$	1.375	$\frac{15}{16}$
12	6	$6\frac{1}{2}$	$1\frac{5}{8}$	1.500	$\frac{7}{8}$
13	$6\frac{1}{2}$	7	$1\frac{3}{4}$	1.625	$\frac{15}{16}$
14	7	$7\frac{1}{2}$	$1\frac{15}{16}$	1.750	$1\frac{1}{8}$
15	$7\frac{1}{2}$	8	$2\frac{1}{16}$	1.875	$1\frac{1}{8}$
16	8	$8\frac{1}{2}$	$2\frac{3}{16}$	2.000	$1\frac{1}{4}$
18	9	$9\frac{5}{16}$	$2\frac{3}{8}$	2.250	$1\frac{3}{8}$
20	10	$10\frac{3}{4}$	$2\frac{3}{4}$	2.500	$1\frac{5}{8}$

• **COMPACT, NEAT
AND RUGGED**

• **ALL WORKING
PARTS HARDENED
AND GROUND**

• **HIGH RADIAL AND
THRUST LOAD RATING**

• **AMPLE PROVISION
FOR ADEQUATE
LUBRICATION**

STRAIGHT SHANK CENTERS

Shank Diameter	Shank Length
$\frac{3}{4}$ "	$3\frac{1}{4}$ "
1"	$3\frac{3}{4}$ "
$1\frac{1}{4}$ "	$4\frac{5}{8}$ "
$1\frac{1}{2}$ "	6"
$1\frac{3}{4}$ "	$6\frac{1}{2}$ "
2"	$7\frac{3}{4}$ "
$2\frac{1}{2}$ "	$8\frac{1}{2}$ "
3"	$10\frac{3}{4}$ "
$3\frac{1}{2}$ "	$11\frac{1}{4}$ "

B & S TAPER

B & S Taper	A	B	C	D	E
7	3	$3\frac{1}{4}$	$\frac{3}{4}$	.725	$\frac{3}{8}$
8	$3\frac{9}{16}$	$3\frac{15}{16}$	$\frac{15}{16}$	.898	$\frac{9}{16}$
9	4	$4\frac{11}{16}$	$1\frac{1}{8}$	1.067	$\frac{5}{8}$
10	$5\frac{11}{16}$	6	$1\frac{3}{8}$	1.289	$\frac{3}{4}$
11	$6\frac{11}{16}$	$7\frac{1}{4}$	$1\frac{3}{4}$	1.531	$\frac{15}{16}$
12	$7\frac{1}{8}$	8	2	1.797	$1\frac{1}{8}$
13	$7\frac{3}{4}$	$8\frac{3}{4}$	$2\frac{1}{4}$	2.073	$1\frac{1}{4}$
14	$8\frac{1}{4}$	$8\frac{7}{8}$	$2\frac{1}{4}$	2.344	$1\frac{1}{4}$
16	$9\frac{1}{4}$	$9\frac{7}{8}$	$2\frac{13}{16}$	2.885	$1\frac{5}{8}$
18	$10\frac{1}{4}$	$11\frac{5}{8}$	$3\frac{11}{16}$	3.427	$2\frac{1}{8}$

LANDIS TAPER

Landis Taper	A	B	C	D	E
.8125	$3\frac{3}{8}$	$3\frac{15}{16}$	$\frac{7}{8}$	.8125	$\frac{7}{16}$
1.335	$4\frac{1}{8}$	$4\frac{11}{16}$	$1\frac{7}{16}$	1.335	$\frac{3}{4}$
1.750	$5\frac{7}{16}$	$6\frac{3}{16}$	2	1.750	$1\frac{1}{8}$

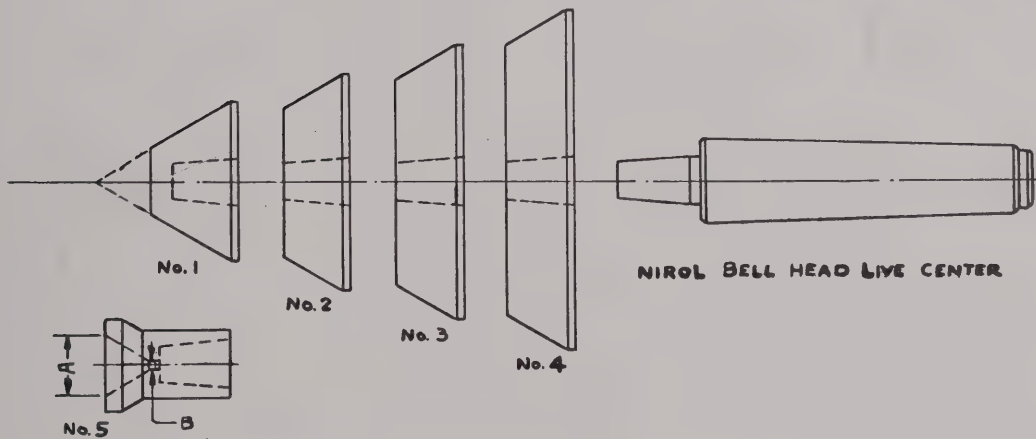
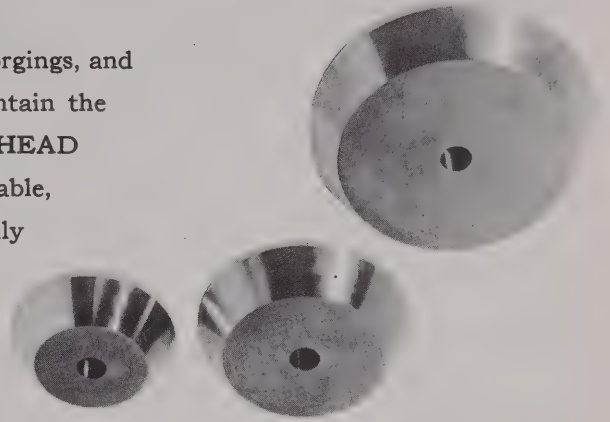
NORTON TAPER

Norton Taper	A	B	C	D	E
12	6	$6\frac{3}{4}$	$1\frac{1}{2}$	1.500	$\frac{7}{8}$
16	8	$8\frac{3}{4}$	$2\frac{3}{16}$	2.000	$1\frac{1}{4}$
24	12	$13\frac{1}{4}$	$2\frac{7}{8}$	3.000	2

NIROL SPRING LOADED LIVE CENTERS WITH BELL HEADS

**For Holding Castings, Forgings and
Large Diameter Tubing and Pipe**

NIROL BELL HEAD CENTERS, for holding castings, forgings, and large diameter tubing and pipe, has been designed to maintain the smallest overhang possible. The shaft or nose of the BELL HEAD center is ground to a slight taper to fit several sizes of removable, interchangeable heads. Heads can be changed quickly and easily to facilitate set up for changes in size of work.



STANDARD BELL HEAD SIZES

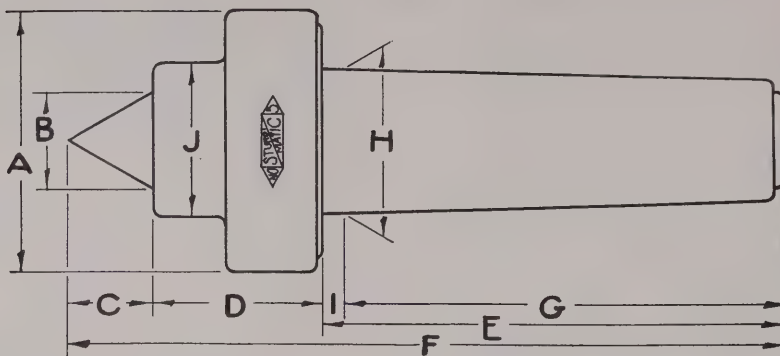
Morse Taper	No. 1 Size Range	No. 2 Size Range	No. 3 Size Range	No. 4 Size Range	No. 5	
					A	B
2	$\frac{3}{16}$ - $1\frac{5}{16}$	$1\frac{1}{4}$ - $1\frac{13}{16}$	$1\frac{3}{4}$ - $2\frac{11}{32}$	$2\frac{1}{4}$ - $2\frac{27}{32}$	$\frac{3}{4}$	$\frac{1}{8}$
3	$\frac{3}{8}$ - $1\frac{27}{32}$	$1\frac{23}{32}$ - $2\frac{9}{16}$	$2\frac{15}{32}$ - $3\frac{5}{16}$	$3\frac{7}{32}$ - $4\frac{1}{16}$	$1\frac{1}{8}$	$\frac{3}{16}$
4	$\frac{5}{8}$ - $2\frac{9}{32}$	$2\frac{5}{32}$ - $3\frac{5}{32}$	$3\frac{1}{8}$ - $4\frac{7}{32}$	$4\frac{1}{8}$ - $5\frac{3}{16}$	$1\frac{3}{8}$	$\frac{7}{32}$
5	$1\frac{1}{16}$ - $3\frac{5}{16}$	$3\frac{3}{16}$ - $4\frac{13}{16}$	$4\frac{21}{32}$ - $6\frac{3}{16}$	$6\frac{1}{8}$ - $7\frac{21}{32}$	2	$\frac{3}{8}$
6	$1\frac{1}{2}$ - $5\frac{5}{32}$	$4\frac{15}{16}$ - $7\frac{13}{32}$	$7\frac{1}{4}$ - $9\frac{3}{4}$	$9\frac{19}{32}$ - $12\frac{1}{16}$	$3\frac{1}{32}$	$\frac{1}{2}$
7	$4\frac{1}{2}$ - $6\frac{7}{8}$	$6\frac{3}{4}$ - $9\frac{5}{16}$	$9\frac{9}{16}$ - $11\frac{3}{4}$	$11\frac{5}{8}$ - $14\frac{3}{16}$	$4\frac{1}{16}$	$\frac{11}{16}$

NEED HELP ON BEARINGS—CALL US

STURDIMATIC HEAVY DUTY LIVE CENTERS

BROWN & SHARPE TAPERS

SIZE	HEAD
5	2
7	3
9	4
10	4
11	4
12	5



Always specify the head and taper number required.

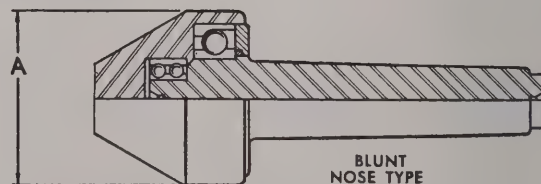
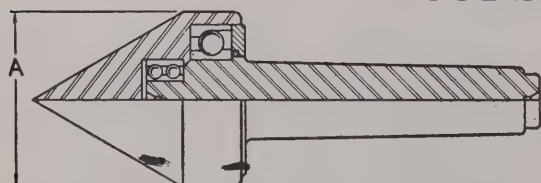
JARNO TAPERS

SIZE	HEAD
6	2
7	2
8	3
9	3
10	4
11	4
12	5

TYPE A-1—MORSE TAPER SPECIFICATIONS

Head No.	Morse Taper No.	A	B	C	D	E	F	G	H	I	J	Combined Radial & Thrust Load at 100 r.p.m.
2	2	$1\frac{7}{8}$	$\frac{3}{4}$	$1\frac{1}{16}$	$1\frac{1}{2}$	$2\frac{3}{4}$	$5\frac{1}{32}$	$2\frac{9}{16}$	.700	$\frac{3}{16}$	$1\frac{7}{16}$	1,560
3	3	$2\frac{3}{8}$	$\frac{7}{8}$	$\frac{3}{4}$	$1\frac{11}{16}$	$3\frac{5}{8}$	$5\frac{7}{8}$	$3\frac{7}{16}$	.938	$\frac{3}{16}$	$1\frac{11}{16}$	3,250
4	4	$2\frac{3}{4}$	$1\frac{5}{16}$	$1\frac{3}{16}$	$1\frac{3}{4}$	$4\frac{7}{16}$	$6\frac{27}{32}$	$4\frac{3}{16}$	1.231	$\frac{1}{4}$	$1\frac{11}{16}$	7,000
5	5	$3\frac{1}{4}$	$1\frac{3}{16}$	1	$2\frac{3}{16}$	$5\frac{11}{16}$	$8\frac{3}{4}$	$5\frac{7}{16}$	1.748	$\frac{1}{4}$	$2\frac{3}{16}$	10,000
6	6	$4\frac{7}{16}$	$2\frac{1}{8}$	$1\frac{3}{4}$	$2\frac{5}{8}$	$7\frac{5}{8}$	$11\frac{7}{8}$	$7\frac{3}{8}$	2.494	$\frac{1}{4}$	$3\frac{1}{16}$	14,500
7	7	7	3	$2\frac{19}{32}$	$4\frac{1}{4}$	$10\frac{11}{16}$	$17\frac{5}{32}$	$10\frac{3}{16}$	3.270	$\frac{1}{2}$	$4\frac{11}{16}$	46,700

TUBING CENTERS



TUBING CENTER SPECIFICATIONS

Size	"A"	Morse Taper
2	$1\frac{7}{8}$	2
3	$2\frac{3}{8}$	3
4	$2\frac{3}{4}$	4
5	$3\frac{1}{4}$	5

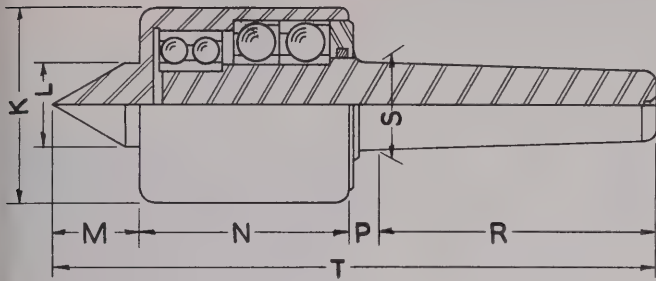
A	Taper	Dia. Blunt Nose
$1\frac{7}{8}$ "	# 2 Morse	$\frac{1}{2}$ "
$2\frac{3}{8}$ "	# 3 Morse	1"
$2\frac{3}{4}$ "	# 4 Morse	1"
$3\frac{1}{4}$ "	As Req'd.	$1\frac{1}{4}$ "

A	Taper	Dia. Blunt Nose
4"	As Req'd.	$1\frac{1}{2}$ "
5"	As Req'd.	2"
6"	As Req'd.	3"

OTHER SIZES, TAPERS BUILT TO YOUR SPECIFICATIONS

NEED HELP ON BEARINGS—CALL US

STURDIMATIC LIVE CENTERS



Points made of alloy steel hardened and ground true with bearings. *Flush ground tandem bearings gives double thrust capacity.* Maximum capacity double row radial bearing for heavy radial loads.

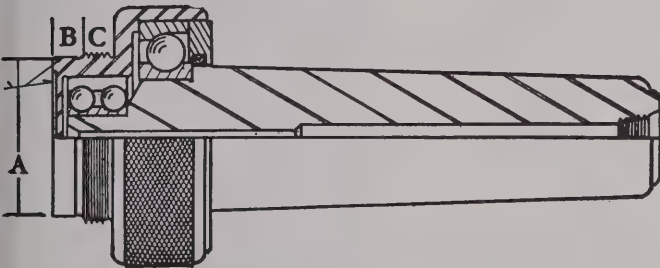
Standard head is shown in dimension chart below. Head of any other size or shape can be furnished to your specifications.

Also available in Jarno, Brown & Sharpe, and straight shanks.

Always specify head and taper number required.

EXTRA HEAVY DUTY TYPE DT

Head No.	Morse Taper	K	L	M	N	P	R	S	T	Radial Load at 100 R.P.M.	Thrust Load at 100 R.P.M.
3	3	2 $\frac{3}{8}$	1	1 $\frac{1}{8}$	2 $\frac{11}{16}$	$\frac{3}{16}$	3 $\frac{1}{2}$	.938	7 $\frac{7}{16}$	2,630	6,440
4	4	2 $\frac{3}{4}$	1	1 $\frac{1}{8}$	2 $\frac{13}{16}$	$\frac{1}{4}$	4 $\frac{3}{16}$	1.231	8 $\frac{3}{8}$	2,630	9,960
5	5	3 $\frac{1}{4}$	1 $\frac{1}{4}$	1 $\frac{5}{16}$	2 $\frac{15}{16}$	$\frac{1}{4}$	5 $\frac{7}{16}$	1.748	9 $\frac{15}{16}$	3,530	11,900
6	6	4 $\frac{1}{2}$	2 $\frac{1}{8}$	2 $\frac{1}{8}$	3 $\frac{29}{32}$	$\frac{1}{4}$	7 $\frac{1}{4}$	2.494	13 $\frac{17}{32}$	9,550	17,580

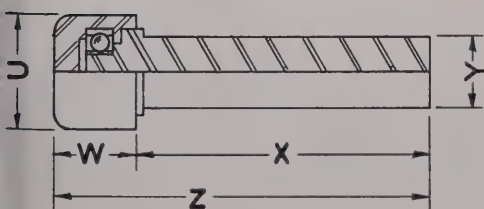


ADAPTER CENTER DIMENSIONS

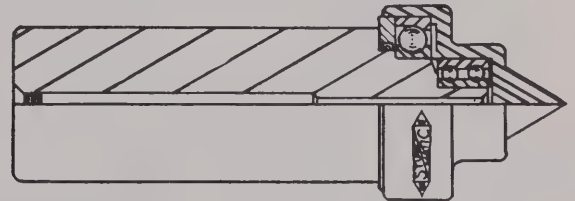
Size	A	B	C	Thd.
No. 2	1.500	+0000 -0001 $\frac{5}{16}$	$\frac{3}{8}$	1 $\frac{5}{8}$ x16
No. 3	1.625	+0000 -0001 $\frac{5}{16}$	$\frac{7}{16}$	1 $\frac{3}{4}$ x16
No. 4	1.625	+0000 -0001 $\frac{5}{16}$	$\frac{7}{16}$	1 $\frac{3}{4}$ x16
No. 5	2.1875	+0000 -0001 $\frac{5}{16}$	$\frac{9}{16}$	2 $\frac{3}{8}$ x16

Special Adapters Built to Your Specifications

REVOLVING STOCK STOP



With this revolving stock stop bars can be fed through collet while turret lathe is running, reducing machine handling. The ball bearing head of the stop cannot gall or score while bar is rotating. Grease sealed in bearing for life.



STRAIGHT SHANK CENTERS

For Screw Machines, Turret Lathes, Milling Machines, Etc.

Shank Size	Head No.
1"	3
1 $\frac{1}{2}$ "	4
1 $\frac{3}{4}$ "	5
2"	5
2 $\frac{1}{2}$ "	6

REVOLVING STOCK STOP DIMENSIONS

* Size	U	W	X	Y	Z
RSS 1	1 $\frac{3}{16}$	$\frac{7}{8}$	3	$\frac{3}{4}$	3 $\frac{15}{16}$
RSS 2	1 $\frac{1}{2}$	1 $\frac{1}{16}$	5	1	6 $\frac{1}{8}$
RSS 3	2 $\frac{1}{4}$	1 $\frac{5}{16}$	6 $\frac{1}{2}$	1 $\frac{1}{2}$	7 $\frac{7}{8}$
RSS 4	2 $\frac{1}{4}$	1 $\frac{5}{16}$	7 $\frac{1}{2}$	1 $\frac{3}{4}$	8 $\frac{7}{8}$

*All have flats on shank except RSS #1.

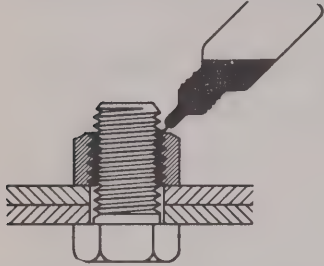
Other sizes and shapes made to your specifications. Order by RSS number.

LOCTITE[®] SEALANT

THE LIQUID LOCK FOR METAL PARTS

LOCTITE sealant is a thin liquid that hardens into a tough plastic bond when confined between closely fitting metal parts.

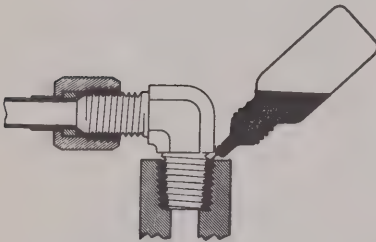
STOPS costly breakdowns due to loose nuts and bolts



LOCTITE Sealant locks ordinary nuts and bolts so securely that no amount of vibration can shake them loose and yet they can be removed with ordinary tools. Loose nuts and bolts are a major cause of breakdowns in mechanical equipment. A little LOCTITE in the right place and bolted assemblies stay sturdy for life.



SEALS hydraulic and gas pressure lines

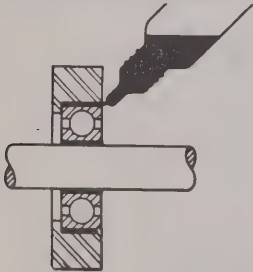


Seals pipe and tube joints pressure-tight with tough plastic. Makes flare fittings vibration proof. Requires neither heat nor mixing, requires no flux, has no pot life problems.

Effective on threaded and sleeve joints, LOCTITE seals by hardening automatically in the spaces within the joint. Resists heat, cold, oil, fuels, water, solvents, all hydraulic fluids. Excellent for use with fire-resistant fluids.



REPAIRS loose bearings without costly shaft or housing preparation



Restores the fit to worn housings and shafts. Holds bearings, gears, pulleys, sleeves, oil seals without press fits. Eliminates reborring, sleeving, shims and weld metal builds. Locks parts in housings by filling clearance so that slippage cannot occur.

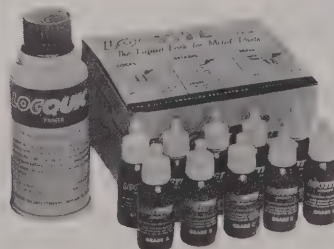


10cc, 50cc and 250cc plastic bottles



NO. 1-50 MAINTENANCE KIT

Contains one 50cc plastic bottle of LOCTITE sealant general purpose grade B and a new aerosol spray can of LOCQUIC primer for use on oily or plated parts. Directions printed inside box cover.



NO. 10-10 PRODUCTION STARTER KIT

Contains ten 10cc plastic bottles of LOCTITE sealant grades AA, A, AV, B, C, CV, E, EV, H, HV; new spray can of LOCQUIC primer (for use on oily or plated parts); plastic bag for tumbling method of application; complete directions for use.



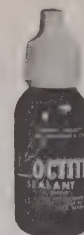
LOCQUIC PRIMER

Used to speed hardening of LOCTITE sealant. Ready-to-use in handy 6 oz. spray can or 4 oz. glass bottle. Specify grade N or Q.

Also available in gallon cans. Grade N also provided in concentrated form for addition to degreasing solutions.



LOCTITE[®] SEALANT THE LIQUID LOCK FOR METAL PARTS



TECHNICAL INFORMATION

HOW IT WORKS:

LOCTITE sealant is a thin liquid that hardens into a tough plastic bond when confined between closely fitting metal parts.

The self-hardening property of LOCTITE which makes it unique among all other sealants and adhesives is based on two factors—(1) contact with air keeps LOCTITE liquid, and (2) metal surfaces hasten hardening. In joints between mating metal parts LOCTITE hardens rapidly because it is in close contact with metal and out of contact with air. *A film of LOCTITE on an exposed metal surface stays liquid as long as it is in contact with air.*

LOCTITE bonds all common metals, glass, ceramics, and phenolic plastics to themselves and to each other. Phenolic plastic parts and some plated metal parts require a priming rinse in degreasing solvent containing a hardening agent—our LOCQUIC primer. The locking action of LOCTITE extends over the whole engaged surface, resulting in a high breakloose torque. Even after the bond has been ruptured, the hardened plastic acts as a mechanical obstruction in the threads and develops a prevailing torque type of locking action which persists for several full turns.

LOCTITE sealant is used to restore the fit to worn housings, shafts and other parts which have previously been press fitted. Eliminates need for costly machining or parts replacement. Hardening of liquid sealant establishes perfect fit between the joined parts.

CURE TIME: 4 to 12 hours at 75°F depending on the metal. Heat hastens hardening which is complete in ten minutes at 212°F and in five minutes at 350°F. Room temperature hardening can be accelerated by priming parts with a LOCQUIC rinse, described below.

OPERATING TEMPERATURE RANGE: -65°F to +300°F.

SOLUBILITY: Liquid LOCTITE is soluble in trichloroethylene and most degreasing solvents. *Hardened* LOCTITE is insoluble—resists oil, water, gasoline, fuels MIL-1, MIL-111, JP-4, engine oils, MIL-0-6081, MIL-0-6082, MIL-L-7808, hydraulic fluids AN-0-366, Skydrol 7000, Freon, most chemicals.

SOLVENT ACTION: Liquid LOCTITE does not affect thermoset plastics, phenolics, ureas, gum rubber, nylon, or polyethylene. It softens polystyrene, cellulosic and vinyl plastics, lacquered and varnished surfaces.

FLASH POINT: Above 200°F. Non-volatile and non-flammable at room temperature.

CAUTIONS: To avoid spoilage do not contaminate large quantities of LOCTITE with metal dust or LOCQUIC. Pour from bottle into service dish for brushing, dipping applications; do *not* pour back into bottle. Avoid entry into moving parts. Test before using on organic finishes.

CLEARANCE: General purpose grade B and other low viscosity grades will fill clearance from 0" up to .004".

High viscosity grades will fill from .005" to .010".

LOCTITE SPECIFICATIONS

Grade	Color Code	Viscosity	Shear Strength psi
AA (15-1)	Green	Low	1150-1500
A (10-1)	Red	Low	750-1000
D (10-4)	Orange	Medium	750-1000
AV (10-10)	Red	High	750-1000
*B (7-2)	Yellow	Low	525-700
C (4-1)	Blue	Low	300-400
CV (4-10)	Blue	High	300-400
E (2-1)	Purple	Low	150-200
EV (2-10)	Purple	High	150-200
H (1-1)	Brown	Low	75-100
HV (1-10)	Brown	High	75-100

*Grade B is a general purpose grade covering a wide range of applications.

Use lower viscosities for fine threads and maximum penetrating ability; higher viscosities for coarse threads and large clearances.

MILITARY SPECIFICATIONS

MIL-S-22473—SEALING COMPOUNDS, RETAINING, SINGLE COMPONENT, ANAEROBIC.

A specification prepared by U. S. Navy—BUSHIPS to cover the use of LOCTITE sealant for a wide range of locking and sealing applications.

MIL-S-40083 — SEALING AND RETAINING, COMPOUNDS; THREAD, SINGLE COMPONENT.

Army Ordnance has approved this specification on the characteristics and performance of LOCTITE sealant with regard to its use on threaded fasteners and fittings and for retaining bearings.

MIL-P-11268D—PARTS, MATERIALS AND PROCESSES USED IN ELECTRONIC COMMUNICATION EQUIPMENT.

LOCTITE sealant is called out as a preferred method of securing threaded fasteners.

MIL-E-5400E—ELECTRONIC EQUIPMENT, AIRCRAFT.

Aeronautical Standards Group has approved use of LOCTITE under this general specification for airborne electronic equipment.

MIL-T-21200C — TEST EQUIPMENT FOR USE WITH ELECTRONIC & FIRE CONTROL SYSTEMS.

ASG approves LOCTITE for electronic test equipment applications.

MIL-E-16400D—ELECTRONIC EQUIPMENT, SHIPBOARD.

BUSHIPS requires use of LOCTITE on shipboard electronic equipment where formerly insulating varnish was specified.

MIL-E-8189—ELECTRONIC EQUIPMENT, GUIDED MISSILES.

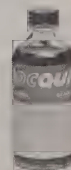
ASG approves LOCTITE sealant under this specification.

LOCQUIC PRIMER

LOCQUIC primer is a rinse which may be used to speed the hardening of LOCTITE sealant. Most zinc and cadmium plated, anodized aluminum and passivated stainless steel parts require LOCQUIC primer. Non-metallic parts need priming to activate surfaces.

Primer is made in two grades:

- Grade N: normal, for priming inactive parts, provides full sealant cure in 2-4 hrs., use when sealant will be applied by tumbling, (MIL-S-22473-N).
- Grade Q: quick, provides full sealant cure in 15-30 min., finger-tight in 2 min. (MIL-S-22473-Q).

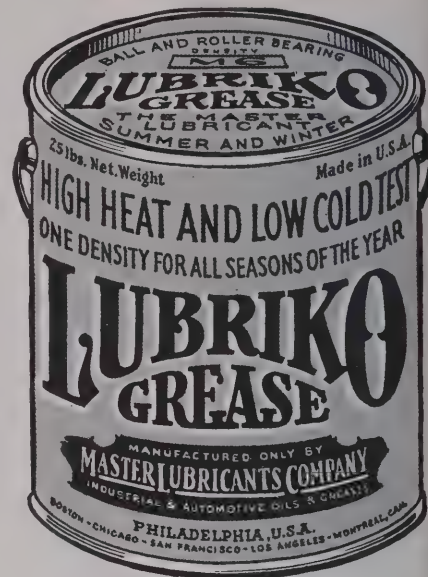


THE MASTER LUBRICANT FOR BALL AND ROLLER BEARINGS

LUBRIKO
TRADE-MARK REG. U.S. PAT. OFF.
GREASES

Extreme temperatures and various speeds are factors to be considered for the proper selection of lubricants. Lubriko is supplied in the following grades or densities specifically meeting the lubrication requirements of practically every ball or roller bearing application.

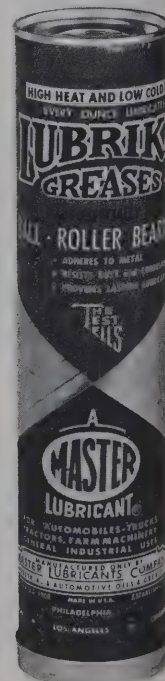
Density	USE AND APPLICATION	Minimum Melting Point
M-1	For Central Force Feed Systems. Creepage and drip eliminated. Will not plug system orifices. Has excellent pumpability over wide temperature ranges and distances.	370°F.
M-2	A general purpose soft pressure gun grease with very low freezing point.	370°F.
M-3	A general purpose grease slightly heavier than M-2. An excellent lubricant for Spherical roller bearings where flanges and rubbing contacts require positive lubrication.	380°F.
M-6 M-21	General purpose ball and roller bearing greases. These greases are widely used for electric motors, pillow blocks and for plain bearings. These two greases are identical.	380°F.
M-24-315	A very stable soft grease originally made for use in spherical bearings operating in higher temperatures.	380°F.
M-24-M	A very stable high temperature grease used by several Ball Bearing manufacturers for pre-packed bearings, many pillow block applications, dryer and oven equipment, unit heater bearings and dryer fans.	400°F.
M-31	For vertically operated equipment where grease slightly on heavy side is required or preferred.	380°F.
M-32	A stable grease used in pre-packing bearings and for general application where this consistency is required. Very efficient for lubrication of Textile equipment such as Looms where oil creepage must be eliminated.	380°F.
7XM	A sealing grease, very useful when it is desired to protect bearings from product dust contamination.	380°F.
H C	A heavy Cup grease. Suitable for turn-down grease cups. Used extensively for packing open type plain bearings similar to those found in the smaller type ball-mills.	380°F.
S C	Same as H C and worked for easier handling through application equipment.	380°F.
M-40 M-41	Waterproof greases for severe moisture or water conditions.	210°F. 200°F.
M D	A liquid lubricant for use on multiple spindle drill heads to prevent leakage generally produced by straight oils.	
WBG	An approved heavy duty Wheel Bearing Grease. Does not leak, adheres to bearings and prevents rusting. For trucks, pleasure cars and motorcycles.	360°F.
G-102	For open gears, black and viscous.	200°F.
B-102	Grease for high temperature open gears.	None
L-203	Waterproof.	350°F.
L-206	Waterproof.	350°F.
L-212	A heavy waterproof grease unaffected by boiling water.	375°F.
0	LUBRIKO LIQUID GREASES For low and high speed enclosed gears and bearings operating as a unit. To be used in central systems where this density would be required.	368°F.
0-Special	For heavy duty enclosed gear assemblies with extreme pressure quality.	340°F.
000	For use in Speed Reduction Units and for coating open chain drives. Also for use in central systems.	360°F.
0000	For wide range of Speed Reduction Units. For enclosed chain drives. Also for use in central systems.	Fluid
00000	For use where a very light Liquid Grease is required.	Fluid



Drums—approx. 400 lbs.
Quarter Drums—approx. 120 lbs.
50-lb. pails
35-lb. pails
25-lb. pails
10-lb. cans (cases 6/10's)
5-lb. cans (cases 12/5's)
2-lb. cans (cases 12/2's)
1-lb. cans (cases 48/1's)



Tubes, with special key and nozzle.
1 oz. (144 to a Case)
2 oz. (144 to a Case)
4 oz. (144 to a Case)
8 oz. (Cartons of 6)
8 oz. (72 to a Case)
16 oz. (48 to a Case)



Cartridge Grease Container
14- 1/2 Oz. Net.
Packed in Cartons of 12 Cartridges
Stocked in Following Densities
M-3, M-6, Multi-Purpose

NEED HELP ON BEARINGS—CALL US

MASTER LUBRICANTS GREASES

Lubricant
No.

ELECTRIC MOTORS

- M-6** The general purpose grease for the majority of ball and roller bearing Electric Motor applications.
- M-24-M** For high temperature and leakage prevention on many vertically operated motors. Dirt free, long lasting; prevents rust and corrosion. Does not harden or cake.

ELECTRIC TOOL LUBRICANTS

- T-517** For geared units such as electric drills. Keeps gears and bearings continuously coated. Operates in high and low temperatures.
- T-522** This is a soft, flowing, high melting point grease developed for portable electric saws and other similar equipment using worm gear drives.

SPEED REDUCTION GEARS

Remains very stable with temperature changes and during idle periods. Gears are always coated with a protective film to prevent rust and corrosion.

- 0000** Has a high melting point and will operate also at sub-zero temperatures. Stops oil leakage.
- 000** Slightly heavier than 0000.
- 0** For many types of small gear boxes.
- H-154** For reducers operating in high temperatures.

CENTRAL LUBRICATING SYSTEMS GREASE

These greases meet the critical requirements for use in Central Lubricating Systems. Consistencies are available from liquid to soft grease types, are uniform and will not separate in Systems. They cling to a surface better and last much longer. They are free from contaminants, will not plug up lines or injectors, reduce drippage, and prevent rust. Good pumpability in a wide range of temperatures.

- M-55** This lubricant can replace oil with its objectionable creepage. Can be applied with an ordinary oil can.
- M-54** Slightly heavier than M-55. Outstanding on Carding Machines in the textile industry.
- M-51** Heavier than M-54. N. L. G. I. zero consistency.
- M-1** A heavy N. L. G. I. zero consistency.
- M-3** N. L. G. I. No. 1 consistency used in steel plants.
- M-50 Special** For spraying on gears—an extreme pressure lubricant.

OPEN GEAR LUBRICANTS

- B-102** A heavy, black, waterproof open gear lubricant for high temperatures. Does not melt.
- G-102** A heavy, black, waterproof viscous grease for open gears as used in quarries, on shovels and shop equipment.
- HP-P** For use in food plants and on machinery where black lubricants would be objectionable.
- CW-606-P** A white, viscous grease for open gears and chains.

EDIBLE GREASE

- CW-606** N. L. G. I. #2 consistency grease for food handling equipment.
- CW-606-P** For open chains and gears in food handling machinery.

MILL GREASES IN BRICK, SLAB AND BULK FORM

All have very high melting points, are pure lubricants and do not contain fillers of any description.

- 8XL** Shipped in brick form for laundries.
- 7X-8X** Brick form for paper mills and cotton finishing plants. Does not glaze, bleed or leak.
- 6X** Slab form for ball mills and dryers in cement plants, gypsum mills and paint processing mills.
- 5X** Preferred by some cotton finishing plants for steam, schreiner and steam calenders.
- 4X** A very heavy bulk grease for packing small open slot bearing housings.
- WPB** A hard, waterproof brick grease for jaw crushers.
- YARN GREASE** A high temperature grease mixed with pure, wool yarn. Used in cement plants and on paper mill beater journals.
- MASTER SLAB** A high melting point slab form grease used in paper mills and cement plants.

Lubricant
No.

TEXTILE EQUIPMENT

- M-24-XM** For ball bearing loom motors.
- M-6** For ball bearing motors and tenter rails.
- M-32** A general purpose grease for weaving plants.
- M-24-M** For ball bearing dryer bearings and dryer fans.
- B-102** A non-melting grease for calender gears or dry can gears.
- M-40-P** A waterproof grease for open gears and exposed chains.
- 7X** Brick for steam, schreiner and friction calenders.
- M-55** A liquid grease for many machine parts. Does not creep. Equipment can be kept much cleaner and more free from lint collections.
- CW-606** A heavy grease for hand lubricated twister rings.
- CW-656** For twister ring central lubricator system lubrication.
- CW-659** A very light lubricant for twister rings equipped with wick feed systems.
- M-40** Excellent for spreader ball bearings.
- T-520-EP** Used in comb boxes.
- M-54** For central lubricator systems on cards.
- MASTER WHITE-OIL SPECIAL** For Central Lubricating systems on twistlers. Non-gumming, prevents rust and lubricates travellers safely at high speed.

CHAIN LUBRICATION

- M-54** For enclosed chains, to take the place of oil.
- L-254** A somewhat heavier liquid grease than M-54.
- L-203** A soft waterproof grease.
- L-212** A very stiff waterproof grease unaffected by boiling water.
- CZ-301** For chains operating in fresh or salt water.
- CW-603-P** A tacky, white colored grease for exposed chains in food plants.
- CW-654** For enclosed chains operating in food plants.

OVEN CHAIN LUBRICANT

- T-456 LIQUID** Micro graphite liquid lubricant. A high temperature material for oven chains or similar problems. An excellent kiln car bearing lubricant.
- T-456 PASTE** Where paste type of lubricant is required.

MARINE EQUIPMENT

- OBMG** A light colored extreme pressure lubricant for outboard motor gears. Excellent for use in racing craft.
- BTG** A fine lubricant for boat trailer wheels. Prevents rusting.
- L-212** A very stiff waterproof grease.
- LZ-206** A Multi-purpose lubricant, where a white grease is preferred.

NON-MELTING POINT TYPE GREASES

These Bentonite greases do not melt. They are useful where high temperatures exist such as in enameling ovens where greasing is frequent and minimum drippage is desirable.

- B-503** Light
- B-506** Medium

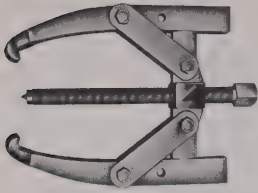
MASTERPLATE GREASES

These (A) Aluminum, (L) Lithium, (C) Calcium, and (B) Bentone greases, with zinc oxide as part of the formula, contain better oils and are more oxidation stable than many previously available greases in their class.

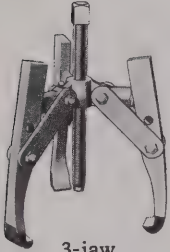
- CZ-351** Used for out-board motor gears, fishing reels and guns.
- CZ-301** Slightly heavier than the CZ-351.
- CZ-306** Similar in consistency to M-6 for general purpose use.
- CZ-332** Same as above except slightly heavier.
- AZ-403** For open gears, cams, slides and general greasing.
- LZ-203** A high melting point, soft multi-purpose lubricant.
- LZ-232** A heavy version of LZ-203.
- SZ-106** For ball and roller bearings, and sliding mechanisms.
- SZ-103** Where a softer grease than SZ-106 would be useful.
- BZ-503** For general greasing. Does not melt.
- BZ-506** Where a medium grade of this type would be useful.

T-520, LIQUID GREASE

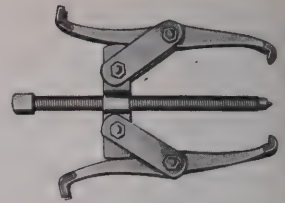
This lubricant was made expressly for "MULTI-LUBERS" central lubricating systems. Used on tractor-trailers, trucks and pleasure cars. It operates equally well in hot or sub-zero temperatures.

OTC GRIP-O-MATIC PULLERS

2-jaw



3-jaw



Reversible-jaws

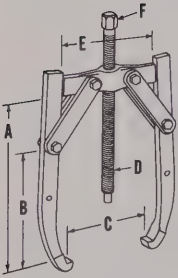


Combination 2-jaw, 3-jaw

If you have a bearing removal problem, we have the tool in stock to enable you to do this job easily, quickly and without damage to housings or shafts.

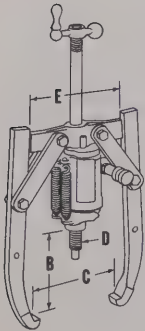
Consult the specifications below in order that the proper selection may be made and be sure that you:

1. Select a puller with a forcing screw small enough to enter the bore of the part to be pulled.
2. Use a puller with a forcing screw at least $\frac{1}{2}$ the diameter of the bore in the part to be pulled.
3. Use the next larger size puller if in doubt about capacity and remember that parts fitted to taper shafts require a larger puller.

SPECIFICATIONS**MECHANICAL Federal Spec: GGG-P-781**

2-Jaw		3-Jaw		Combination		"A"	"B"	"C"	Approx. Capacity in Tons	"D" Diameter and Length of Forcing Screw	"E" Head Nut Length	"F" Size of Screw Head
Puller No.	Wt. (Lbs.)	Puller No.	Wt. (Lbs.)	2-Jaw 3-Jaw Puller No.	Wt. (Lbs.)	Max. Reach	Max. Reach	Max. Spread				
1000	5 oz.	1010	8 oz.	—	—	2 1/8"	1 1/8"	3"	1/2	5/16"-24 x 3 7/8"	1 7/8"	"T" Bu.
1000 1/2-L	14 oz.	1010 1/2-L	18 oz.	—	—	3 3/8"	2 1/4"	4"	3/4	3/8" x 4 1/8"	2 1/4"	1/2" Sq.
*1001	1 3/4	—	—	1011-A	2 3/4	3 1/4"	1 3/4"	6"	5-6	3/8" x 6 15/16"	3"	3/8" Sq.
1001-L	2	—	—	1011A-L	3 1/4	5 1/2"	4"	7"	5-6	3/8" x 6 15/16"	3"	3/8" Sq.
*1002	4 1/2	—	—	1012-A	6 1/4	5"	3 3/4"	8"	9-10	1 1/16" x 9"	4 3/8"	3/4" Sq.
1002-L	5	—	—	1012A-L	7 1/4	8 3/4"	7 1/2"	10"	9-10	1 1/16" x 9"	4 3/8"	3/4" Sq.
1003	10 1/2	—	—	1013-A	14 3/4	11"	7"	12"	15-16	1 3/16" x 12"	6 5/8"	1 1/2" Sq.
1003-L	13	—	—	1013A-L	18 1/4	15 1/4"	12 3/8"	14"	15-16	1 3/16" x 12"	6 5/8"	1 1/2" Sq.
1003 1/2	23	1013 1/2	33	—	—	14 1/2"	10 1/4"	14"	22-24	1" x 13 1/2"	9"	1 1/4" Hex
1003 1/2-L	26	1013 1/2-L	37	—	—	18 3/4"	14 3/8"	16"	22-24	1" x 13 1/2"	9"	1 1/4" Hex
1004	37 1/2	1014	54	—	—	15 1/2"	9 7/8"	16"	28-30	1 1/4" x 16 5/8"	11"	1 3/4" Hex
1004-L	42 3/4	1014-L	60	—	—	22 1/4"	16 1/4"	20"	28-30	1 1/4" x 16 5/8"	11"	1 3/4" Hex
1005	57	1015	82	—	—	22 1/4"	15"	20"	35-38	1 1/2" x 17 1/8"	11"	1 1/2" Hex
1005-L	62 1/2	1015-L	93 1/2	—	—	28 1/4"	21"	26"	35-38	1 1/2" x 17 1/8"	11"	1 1/2" Hex
1006	139 1/2	1016	175	—	—	26 1/2"	17"	30"	50	2" x 22 3/8"	16"	2 3/8" Hex
1006-L	143	1016-L	192	—	—	38 3/4"	29"	36"	50	2" x 22 3/8"	16"	2 3/8" Hex

*(With double-end, reversible jaws.)

HYDRAULIC

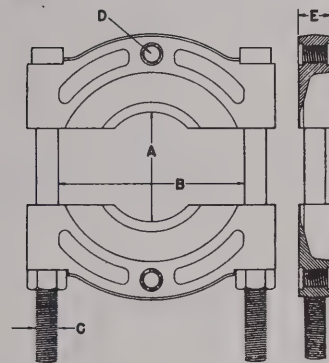
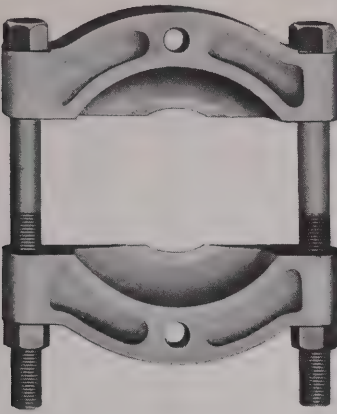
2-Jaw Puller No.	"B" Maximum Reach	"C" Maximum Spread	Approx. Capacity in Tons	"D" Diameter and Length of Forcing Screw	"E" Length of Head Nut	Wt. (Lbs.)	Use with Hydraulic Ram
1003 1/2-HY	7 1/2"	14"	22	1" -8 x 20"	9 1/2"	38	17 1/2-Ton
1003 1/2-HLY	11 1/2"	16"	22	1" -8 x 20"	9 1/2"	40	17 1/2-Ton
1005-HY	13 1/16"	20"	35	1 1/4"-7 x 24"	11 1/2"	84	30-Ton
1005-HLY	19 1/16"	26"	35	1 1/4"-7 x 24"	11 1/2"	91	30-Ton
1006-HY	15 1/8"	30"	50	1 5/8"-5 1/2 x 30 3/8"	16"	170	50-Ton
1006-HLY	27 5/8"	36"	50	1 5/8"-5 1/2 x 30 3/8"	16"	180	50-Ton

3-Jaw Puller No.	"B" Maximum Reach	"C" Maximum Spread	Approx. Capacity in Tons	"D" Diameter and Length of Forcing Screw	"E" Length of Head Nut	Wt. (Lbs.)	Use with Hydraulic Ram
1013 1/2-HY	7 1/2"	17"	24	1" -8 x 20"	11"	49	17 1/2-Ton
1013 1/2-HLY	11 1/2"	20"	24	1" -8 x 20"	11"	53	17 1/2-Ton
1014-HY	9 1/8"	22"	30	1 1/4" x 16 5/8"	13 3/4"	85	30-Ton
1014-HLY	16 1/4"	26"	30	1 1/4" x 16 5/8"	13 3/4"	92	30-Ton
1015-HY	13 1/16"	26"	38	1 1/4"-7 x 24"	13 3/4"	113	30-Ton
1015-HLY	19 7/16"	34"	38	1 1/4"-7 x 24"	13 3/4"	122	30-Ton
1016-HY	15 3/8"	36"	50	1 5/8"-5 1/2 x 30 3/8"	18 1/4"	219	50-Ton
1016-HLY	27 5/8"	44"	50	1 5/8"-5 1/2 x 30 3/8"	18 1/4"	251	50-Ton
1017-HY	33"	48"	100	2 1/2"-8 x 36"	28"	818	100-Ton

NOTE: ("HY" and "HLY" denote complete assembly, including hydraulic ram, adjusting screw and adjusting crank. To get puller without ram, screw and crank, use suffix "Y" in place of "HY", and "LY" in place of "HLY".)

OTC BEARING PULLING ATTACHMENT

Nine sizes of Bearing Pulling Attachments are available, giving a complete range of sizes. These attachments increase the scope and utility of OTC Grip-o-matic Pullers and Push-Pullers and the corresponding size should be purchased for use with these tools. The use of these attachments permits the quick, easy removal of bearings, gears and other parts behind which there is no room to apply the conventional puller. By this method bearings and other tightly fitted parts can be removed and replaced.

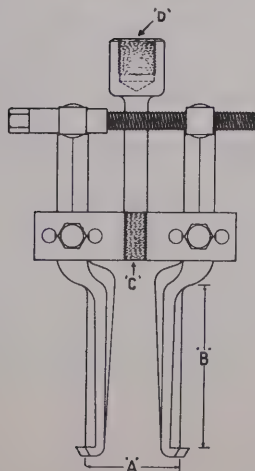
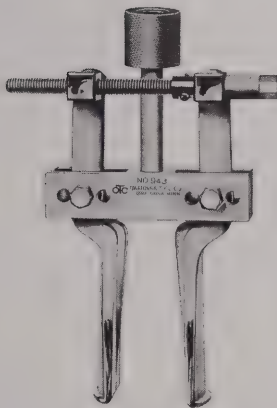


Tool No.	"A"		"B"	"C"	"D"	"E"	Wt. Lbs.	Use with Grip-o-matic No.	Use with Push-Puller No.
	Max.	Min.							
949 1/2	1"	3/8"	1 11/16"	5/16"	5/16" NC	1 1/2"	3/4	1000-1000 1/2-L	
950	2 1/4"	0"	2 1/4"	7/16"	3/8"-16	9/8"	1 1/4	1001-1002	515
951	4 1/4"	0"	4 1/4"	5/8"	5/8"-18	15/16"	5	1002-1003	927
952	5 3/4"	1"	6 1/4"	3/4"	5/8"-18	1 1/4"	11	1003-1003 1/2	938
952A	9"	1"	6"	3/4"	5/8"-18	1 1/4"	12	1003-1003 1/2	938
952D	7 1/2"	1"	7 1/8"	7/8"	1" -14	1 3/4"	19 3/4	1003 1/2-1004	939
953	9"	1"	10"	1 1/8"	1" -14	1 7/8"	41 3/4	1004-1005	939
953C	12 1/2"	5 3/4"	13"	1 1/2"	1 3/4"-12	2 1/4"	100	1005-1006	939 1/2
953D	16"	6 3/4"	16 3/4"	1 3/4"	1 3/4"-12	2 3/4"	197	1006-1006-L	939 1/2

BEARING CUP PULLING ATTACHMENT

The removal of bearing cups from blind holes presents a serious maintenance problem where adequate tools are not available. The bearing must be cut out with a torch or the housing damaged to permit driving the bearing out. In either case the bearing or the case or both are usually ruined.

These attachments are adjustable and the screw adjustments permit the operator to obtain a non-slip grip on a bearing cup even though there may be only a narrow shoulder on which to catch hold.

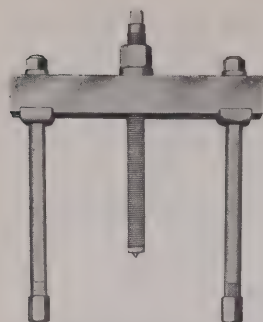


Mechanical			Hydraulic			Spread "A"			Reach "B"	"C"—Block Tapped Hole
Tool No.	"D"—Adapter Tapped Hole	Use with Puller No.	Tool No.	"D"—Adapter Tapped Hole	Use with Puller No.	Max.	Min.			
943-C	1"-14	943-S* 927*, 938	943C-E	1"-8	938-HYD	5"	1 1/2"	2 1/8"	4"	5/8"-18
943			943-E			6"				
943-A			943A-E			7"		5 1/4"		
943-D	1 1/2"-12	939	943D-E	1 1/4"-7	939-HYD	7 1/2"	2 1/2"	5"	1"-14	1"-14
947			947-E			9"				

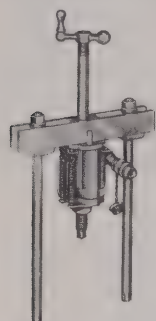
*(Used by removing adapter and threading directly into the block.)

†(To get the 943 less adapter, order No. 943-B.)

These tools are approved and recommended by Timken, Hyatt, Fafnir, New Departure, MRC, SKF, and other leading bearing manufacturers for removing and installing their bearings.



2-leg manually-operated

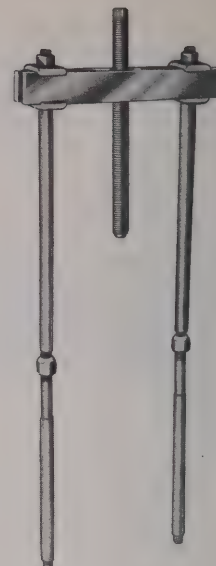


2-leg hydraulically-operated

OTC PUSH-PULLERS

In selecting a Push-Puller, consult the specifications below in order to obtain a tool that meets your requirements and be sure to:

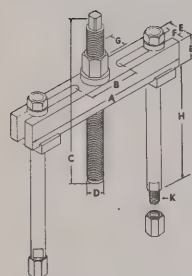
1. Determine the spread required, see column "A" and "B". The difference between these dimensions is the maximum and minimum spread obtainable.
2. Determine the reach required and order the proper length of legs. See table of leg lengths available for each tool.
3. Select the puller with a forcing screw small enough to enter the bore of the part to be pulled.
4. Be sure to select the corresponding size of attachments to fit the Push-Puller you select.
5. Use a good box wrench or Ratchet to operate manual Push-Pullers.



Extra reach is provided by adding and joining extra puller legs with leg connectors (female threaded adaptors).

SPECIFICATIONS

MECHANICAL Federal Spec: GGG-P-781

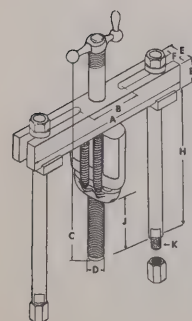


2-Leg Push Puller No.	"A" Length	"B" Length	"C" Length of Screw	"D" Dia-meter of Screw	"E" Head Width, Thickness	"F" Head-Slot Width	"G" Screw-Nut Size	Wt. (Lbs.)	Available Legs				
									OTC No.	"H" Length	"J" Length	"K" Leg-End Size	Wt. (Lbs.) (Pr.)
927	8 1/4"	2"	12"	1 5/8"-18	1 3/8"	1/2"	1"	7	927-D *927-A 927-A1 927-B	4 3/4" 6 3/4" 11 3/4" 15 3/4"	N.A. — — —	5/8"-18	1 1 1/2 2 1/4 3 3/4
938	13 1/2"	2 5/8"	13 1/4"	1"-14	2"	3/4"	1 1/2"	20 3/4	930-E *930-D 930-B 930-C 930-F	4 1/2" 9 1/2" 16 1/2" 22 1/2" 30"	— — — — —	5/8"-18	2 1/2 4 1/2 6 1/2 9 11 1/2
939	18"	7"	17 1/4"	1 1/4"-12	2 1/2"	1"	2 1/4"	46 1/2	*939-A 939-B 939-C	8" 18" 28"	— — —	1"-14	8 15 22

†End threaded 5/8"-18. Balance of screw 3/4"-16.

*(Denotes Standard Legs, automatically supplied with push-puller unit as indicated.)

HYDRAULIC



2-Leg Push Puller No.	"A" Length	"B" Length	"C" Length of Screw	"D" Dia-meter of Screw	"E" Head Width, Thickness	"F" Head-Slot Width	Wt. (Lbs.)	Use with Hydraulic Ram	Available Legs				
									OTC No.	"H" Reach	"J" Reach	"K" Leg-End Size	Wt. (Lbs.) (Pr.)
938-HYD	13 1/2"	2 5/8"	20"	1"-8	2"	3/4"	36	17 1/2-Ton	930-E 930-D *930-B 930-C 930-F	4 1/2" 9 1/2" 16 1/2" 22 1/2" 30"	2 3/8" 2 5/8" 9 5/8" 15 5/8" 23 1/8"	5/8"-18	2 1/2 4 1/2 6 1/2 9 11 1/2
939-HYD	18"	7"	24"	1 1/4"-7	2 1/2"	1"	89	30-Ton	939-A *939-B 939-C	8" 18" 28"	— 9 5/8" 19 5/8"	1"-14	8 15 22
939 1/2-HYD	24"	3"	30 3/8"	1 5/8"-5 1/2	4"	1 3/4"	174	50-Ton	*939 1/2-A 939 1/2-B	24" 34"	13 3/8" 23 3/8"	1 1/4"-12	34 47

*(Denotes Standard Legs, automatically supplied with push-puller unit as indicated.)

NOTE: ("HYD" suffix denotes complete assembly, including hydraulic ram, adjusting screw and adjusting crank. To get push-puller without ram, screw and crank, use suffix "HY" in place of "HYD".)

Consult us for detailed information and demonstration

NEED HELP ON BEARINGS—CALL US

OTC HYDRAULIC PULLERS

The OTC PULLING SYSTEM Utilizing MAGIC HYDRAULIC POWER is More Versatile, More Efficient, More Safe Than Ever Before . . .

The OTC System of pullers can now be operated by hydraulic power. The same basic sets of pullers are connected to quicker action by substituting hydraulic power for manual pulling strain. Four sizes of rams each used with pullers of proportionate strength and ruggedness are available.

The CENTER HOLE in the OTC Power Twin is the key to ready conversion to time-saving HYDRAULIC POWER.

The Power-Twin Ram with its CENTER HOLE permits movement and adjustments of the forcing screw THROUGH THE BODY OF THE RAM.

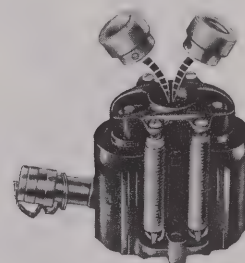
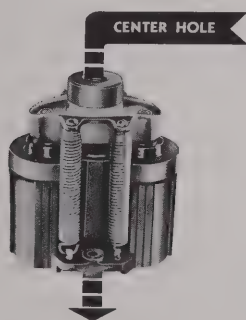
The POWER - TWIN CENTER HOLE RAM is portable, light, compact and safe because the remote control feature allows operation at a safe distance.

The POWER - TWIN CENTER HOLE RAM will operate at maximum power with any standard pump delivering 10,000 P. S. I.

The POWER - TWIN CENTER HOLE RAM will PUSH, PULL or LIFT in any position.

QUICK CHANGE INSERTS —THREADED AND PLAIN

OTC rams feature a basic head which allows operator to change from tapped hole to plain hole by merely changing the "quick-change" head insert.



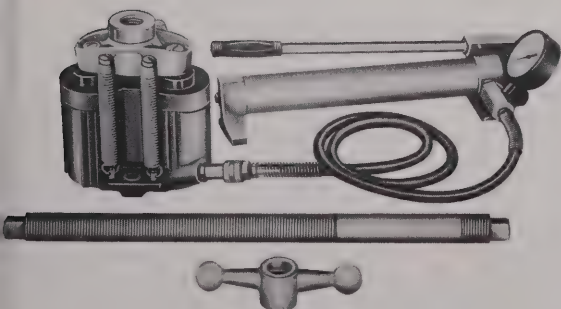
17½ TON

30 TON

50 TON

100 TON

SPECIFICATIONS



Illustrating, Power-Twin Ram, Hose, Pump, Forcing Screw, and Speed Nut.

"POWER-TWIN" RAM SPECIFICATIONS				USE WITH			
Capacity in Tons	Ram Travel	Ram Dimensions	Wt. Lbs.	Use with Pump	2-Jaw Grip-o-matic Puller No.	3-Jaw Grip-o-matic Puller No.	2-Leg Push Puller No.
17½	2"	6 7/8" high 5 3/4" wide 3 3/4" thick	12	Any OTC Pump	1003 1/2-Y 1003 1/2-LY	1013 1/2-Y 1013 1/2-LY	938-HY
30	2 1/2"	8 5/8" high 7 1/2" wide 4 1/2" thick	24	Any OTC Pump	1005-Y 1005-LY	1014-Y 1014-LY 1015-Y 1015-LY	939-HY
50	3"	10 5/8" high 9 3/8" wide 5 1/8" thick	49	Any OTC Pump	1006-Y 1006-LY	1016-Y 1016-LY	939 1/2-HY
100	5"	15 5/8" high 13 1/8" wide 7 1/2" thick	176	Any OTC Pump (Except Y21-1)	—	1017-Y	—

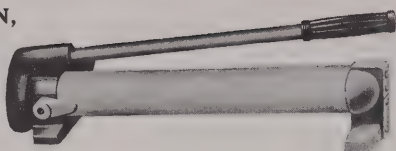
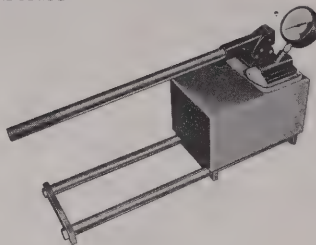
Consult US for Detailed Information and Demonstration

NEED HELP ON BEARINGS—CALL US

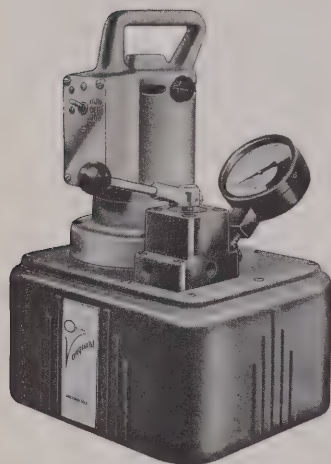
OTC PUMPS FOR HYDRAULIC PULLERS**HAND-OPERATED HYDRAULIC PUMPS****SINGLE-PISTON,
SINGLE-SPEED
—Y21-1**

This lightweight hand pump develops

10,000 P.S.I. and can be used with OTC's 17½, 30 and 50-ton rams. Pump operates horizontally or vertically with pump head in the "down" position. Delivers .122 cu. in. per stroke. Length: 21". Weight: 15 lbs. Reservoir capacity: 1 Qt. Fingertip control. ⅜" NPT port.

**DUALMASTER****No. Y-29
Series**

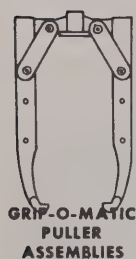
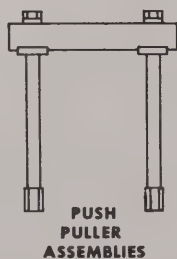
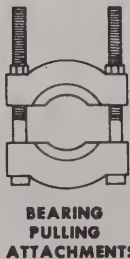
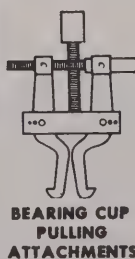
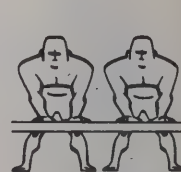
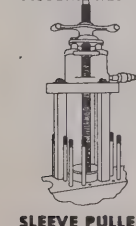
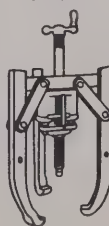
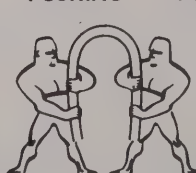
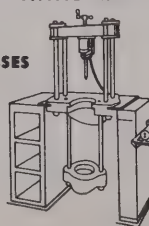
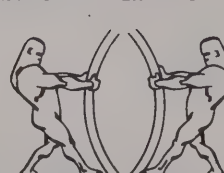
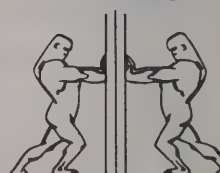
Fast-acting two-speed hand pump! — besides delivering .29 cu. in. per stroke in high pressures up to 10,000 p.s.i., delivers 7.35 cu. in. per stroke (0 to 200 p.s.i.) for fast ram approach and return! Choice of 2-way or 4-way valves for operating single or double-acting cylinders. Wt. 34 lbs.; Cap. 2 Gal.

ELECTRIC-MOTOR-DRIVEN HYDRAULIC PUMP**APPLICATIONS****STRAIGHTENING****TESTING****CURING****MOLDING****CLAMPING****FORMING****HOLDING****PRESSING****SWEDGING****PRE-STRESSING****VANGUARD**

DUAL-VOLUME, DUAL-PRESSURE TYPE—Y-26. Here is a revolutionary two-stage, high-pressure, complete power package—named the "Vanguard"—with exceptional speed for a pump its size at low pressures: delivers from 600 cu. in. of oil/min. at 100 p.s.i., to 400 cu. in. of oil/min. at 500 p.s.i., then from 80 cu. in. of oil/min. at 1000 p.s.i. to 50 cu. in. of oil/min. at 10,000 p.s.i.

The "Vanguard" is compact and lightweight; weighs only 45 lbs. Stands only 17½" high. It is a quiet-operating, precision-built, two-stage unit, driven by a universal motor, and consisting of a gear pump for the low pressure stage and a five-cylinder, axial-piston pump (which is super-charged by the gear pump) for the high pressure stage. Ideal for production, maintenance and O. E. M.

A variety of controls, valves and accessories are available and are easily mounted. Special, detailed literature is available.

**GRIP-O-MATIC
PULLER
ASSEMBLIES****PUSH
PULLER
ASSEMBLIES****BEARING
PULLING
ATTACHMENTS****BEARING CUP
PULLING
ATTACHMENTS****PUSHING****PULLING****LIFTING****PRESSING****SLEEVE PULLERS****THREE ARM
GRIP-O-MATIC
PULLERS****PRESSES****BENDING****SPREADING****CLAMPING**

Consult US for Detailed Information and Demonstration

NEED HELP ON BEARINGS—CALL US

OILITE BRONZE BEARINGS

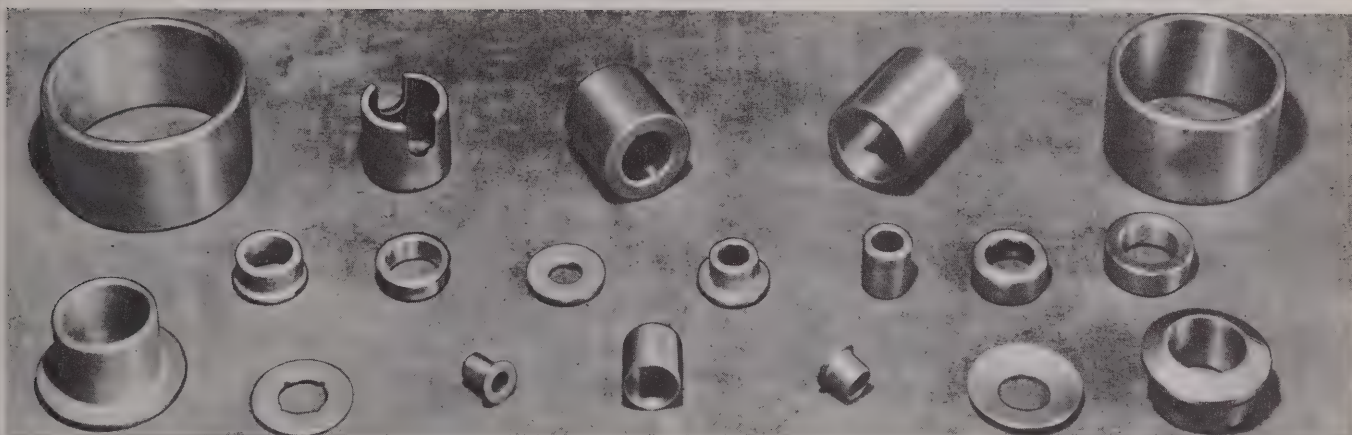
SELF LUBRICATING

General Purpose, Heavy-Duty, Oil-Cushion Bearings

PLAIN BEARINGS

THRUST BEARINGS

FLANGE BEARINGS



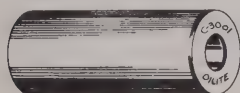
The composition of Oilite Bronze Bearings is predicated upon maximum quality, and factor of safety. Self-lubricating Oilite Bronze Bearings are virtually phosphor bronze. The composition is approximately 90% copper and 10% tin. Powdered electrolytic cop-

per is used with pure powdered tin. Both materials have a purity of 99.6% plus. Oilite Bronze Bearings are impregnated with high-grade, non-gumming oil made especially for Chrysler.

In addition to a wide range of Oilite finished plain, flanged, and thrust bearings Oilite Bronze is supplied in the various forms illustrated below for machining of bearings and parts when dimensions which are not standard are desired.

OILITE CORED BAR STOCK

Sizes range from $\frac{1}{2}$ " I.D. x 1" O.D.
to $7\frac{3}{4}$ " I.D. x $10\frac{3}{8}$ " O.D.



6 $\frac{1}{2}$ " LENGTHS

OILITE SOLID BAR STOCK

Sizes range $\frac{1}{4}$ " to $12\frac{7}{8}$ " diameters

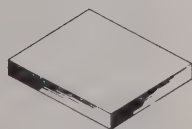


6 $\frac{1}{2}$ " LENGTHS

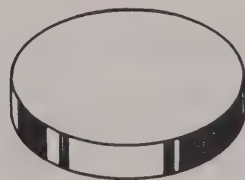
$\frac{1}{16}$ " cut will bring bar to finish size.

OILITE CIRCULAR BEARING PLATES

OILITE PLATE STOCK

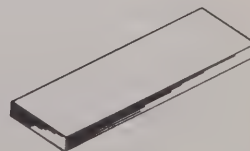


Sizes ranging from
 $\frac{1}{2}$ " x $2\frac{1}{2}$ " x $\frac{1}{4}$ " thick
to 12" x 24" x 1" thick.



Size range from
1" I.D. x 3" O.D. x $\frac{1}{4}$ " thick
to 4" I.D. x 6" O.D. x $\frac{5}{16}$ " thick
3" dia. solid x $\frac{1}{4}$ " thick
to 18" dia. solid x $\frac{3}{8}$ " thick.

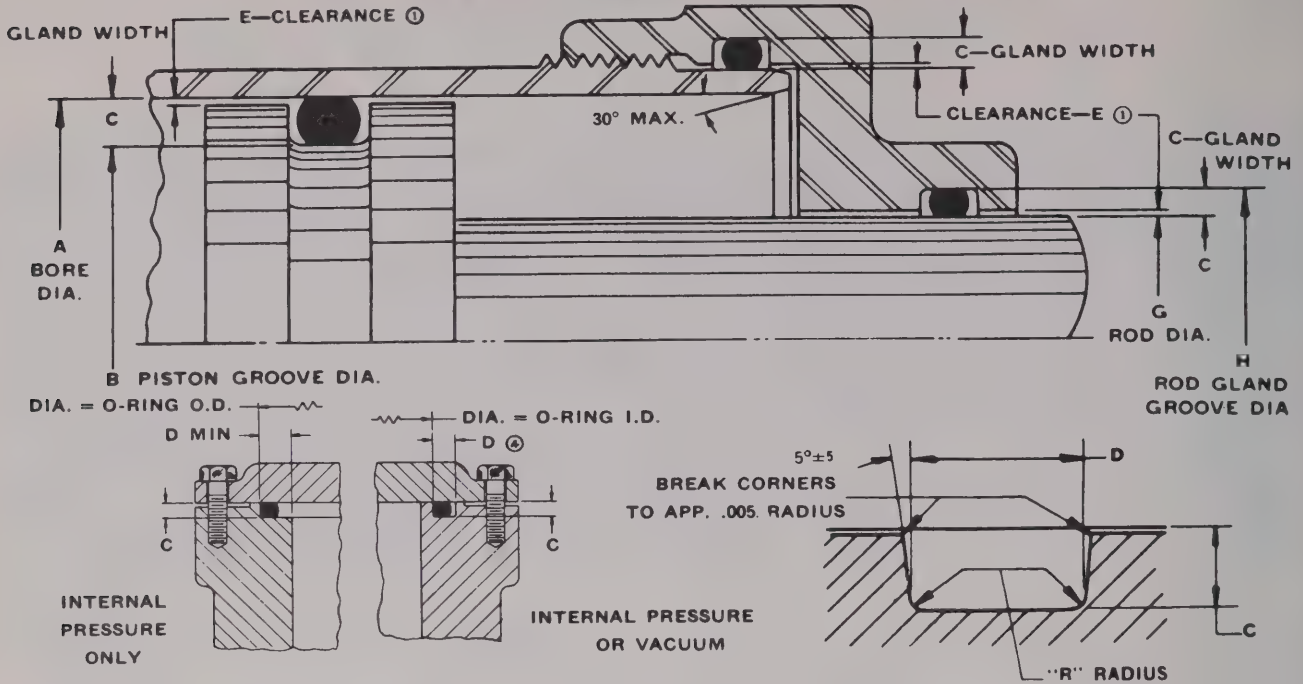
OILITE STRIP STOCK



Sizes range from
6" x 36" x $\frac{1}{32}$ " thick to
6" x 36" x $\frac{1}{16}$ " thick.

ASK FOR CATALOGUE

NEED HELP ON BEARINGS—CALL US

O-RINGS**"O" RING GLAND DESIGN DATA**

PACKING SIZE DASH NO. "A" SERIES	CROSS SECTION DIA. ACTUAL	CROSS-SECTION ② DIAMETRAL SQUEEZE (Min.)		"C" GLAND WIDTH		GROOVE LENGTH "D" REF.	"R" RADIUS MIN.	2 x "E" = DIAMETRAL CLEARANCE MAX. ①	ECCEN- TRICITY MAX. ③
		MOVING SEALS	STATIC SEALS	MOVING SEALS + .000 — .001	STATIC SEALS + .000 — .005				
1	.040 ± .003	.005	.009	.032	.028	.063	.01	.003	.002
2	.050 ± .003	.006	.010	.041	.037	.072	.01	.003	.002
3	.060 ± .003	.008	.012	.049	.045	.085	.02	.005	.002
4 thru 45	.070 ± .003	.010	.015	.057	.052	.094	.02	.005	.002
110 thru 163	.103 ± .003	.010	.017	.090	.083	.14	.02	.005	.002
210 thru 281	.139 ± .004	.012	.022	.123	.113	.19	.03	.006	.003
325 thru 349	.210 ± .005	.017	.032	.188	.173	.28	.05	.007	.004
425 thru 460	.275 ± .006	.029	.049	.240	.220	.38	.06	.008	.005

NOTES

- ① Clearance must be held to an absolute min. consistent with design requirements for temp. variations, and should not exceed values shown in table.
- ② Diametral squeeze indicates min. interference between packing C.S. dia. and "C" dimension.
- ③ Total indicator reading between groove and adjacent bearing surface.
- ④ If space is limited, reduce "D" by substituting actual O-ring C.S. dia. to high tolerance plus static seal squeeze.
- ⑤ All surfaces and corners must be without tool marks, nicks or scratches.

"O" RING KITS**SELECT "O" RING KITS AVAILABLE IN THESE MATERIALS:**

Standard Buna-N Rubber • Viton • Teflon • Silicone Rubber • Butyl Rubber • Military Spec. Series: MIL P5516A, MIL P5315A, MIL G5510A, MIL P25732, MIL R25897, AMS 7270, AMS 7271 and AMS 7274 • Teflon and Leather Back-up Washers.

- * 180 "O" Rings in Each Kit—Sizes 1 to 25.
- * Patented Plastic Case Shows You "O" Ring Sizes in Kit at a Glance!
- * Interchange Data of All Leading "O" Ring Producers in Each Kit—All Manufacturers' Numbers Converted to Universal Numbers.
- * Buy "O" Rings in Different Materials as Shown Above. Buy Replacement Back-up Washers in these "O" Ring Sizes.



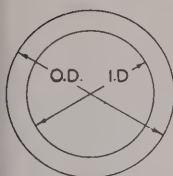
O-RINGS



"O" rings make a very dependable dynamic or static seal at low cost, through a wide range of sizes, pressures, and temperatures.

The 70 Duro Buna "N" synthetic rubber compound "O" rings meet the requirements of the majority of applications for industry. Rings for special requirements are available from stock in the materials shown below.

Metal "O" Rings for temperatures ranging from -500°F. to 1800°F. are also available.



HOW TO ORDER

Use prefix code number with size (dash) number for complete identification.

EXAMPLE:

"O" Ring #01-20

01=70 Duro Buna N ← →-20=7/8" I.D. x 1" O.D.
(Material Code) (Nominal Size)

O-RING MATERIAL CODE NUMBERS

MATERIAL CODE NUMBER	MATERIAL	MILITARY DRAWING NO.	COMMERCIAL DRAWING NO.
01	70 Duro Buna N	—	ARP-568
02	90 Duro Buna N	—	ARP-568
03	70 Duro Viton MIL-R-25897	—	ARP-568
04	70 Duro Viton Commercial	—	ARP-568
05	90 Duro Viton Commercial	—	ARP-568
06	70 Duro Silicon	—	ARP-568
07	70 Duro Butyl	—	ARP-568
08	70 Duro Neoprene	—	ARP-568
09	MIL-P-5516	AN-6227	ARP-568
	MIL-P-5516	AN-6230	ARP-568
	MIL-P-5516	CKCX-2	ARP-568
	MIL-P-5516	ARP-568	ARP-568
10	MIL-P-5315A	MS-29513	ARP-568
10	MIL-P-5315A	MS-29512	ARP-9XX
11	MIL-P-5510A	AN-6290	ARP-9XX
	MIL-P-5510A	MS-28778	ARP-9XX
	MIL-P-5510A	CKCX-3	ARP-568
12	MIL-P-25732	MS-28775	ARP-568
13	MIL-R-7362B	MS-29561	ARP-568
14	AMS-7270 Fuel, Oil	AN-1239XX	ARP-568
		AN-1240XX	ARP-568
15	AMS-7271 Fuel	MS-9021	ARP-568
	AMS-7271	MS-9020	ARP-9XX
16	AMS-7274 Mineral Base Oil	AN-1238XX	ARP-568
		AN-1239XX	ARP-568
17	"O" Ring-Teflon	—	ARP-568
17	Tube Fitting "O" Ring-Teflon	—	ARP-9XX
18	Spiral Back-up-Teflon	MS-28782	ARP-568
18	Spiral Back-up-Teflon	MS-28783	ARP-568
19	Single Turn Back-up-Teflon	MS-28774	ARP-568
19	Single Turn Back-up-Teflon (Tube Fitting)	MS-9058	ARP-9XX
20	Back-up Leather	AN-6246	—
	Back-up Leather	AN-6244	—
21	Bag-O-Matic	—	ARP-568

O-RING SIZE DASH NUMBERS

Size Dash No.	Nominal Size			Actual Size			
	I.D.	O.D.	W.	W.	±	I.D.	±
-1	1/32	7/64	3/64	.040	.003	.029	.004
-2	3/64	1/8	3/64	.050	.003	.042	.004
-3	1/16	5/32	1/16	.060	.003	.056	.004
-4	1/16	13/64	1/16	.070	.003	.070	.005
-5	7/64	15/64	1/16	.070	.003	.101	.005
-6	1/8	1/4	1/16	.070	.003	.114	.005
-7	5/32	9/32	1/16	.070	.003	.145	.005
-8	3/16	5/16	1/16	.070	.003	.176	.005
-9	7/32	11/32	1/16	.070	.003	.208	.005
-10	1/4	3/8	1/16	.070	.003	.239	.005

Size Dash No.	Nominal Size			Actual Size			
	I.D.	O.D.	W.	W.	±	I.D.	±
-11	5/16	7/16	1/16	.070	.003	.301	.005
-12	3/8	1/2	1/16	.070	.003	.364	.005
-13	7/16	9/16	1/16	.070	.003	.426	.005
-14	1/2	5/8	1/16	.070	.003	.489	.005
-15	9/16	11/16	1/16	.070	.003	.551	.005
-16	5/8	3/4	1/16	.070	.003	.614	.005
-17	11/16	13/16	1/16	.070	.003	.676	.005
-18	3/4	7/8	1/16	.070	.003	.739	.005
-19	13/16	15/16	1/16	.070	.003	.801	.005
-20	7/8	1	1/16	.070	.003	.864	.006

NEED HELP ON BEARINGS—CALL US

O-RINGS**SPECIFY MATERIAL CODE AND SIZE DASH NUMBER****SEE PAGE 339 FOR ORDERING INSTRUCTIONS**

Size Dash No.	Nominal Size			Actual Size			
	I.D.	O.D.	W.	W.	±	I.D.	±
-21	$1\frac{5}{16}$	$1\frac{1}{16}$	$\frac{1}{16}$	.070	.003	.926	.006
-22	1	$1\frac{1}{8}$	$\frac{1}{16}$	.070	.003	.989	.006
-23	$1\frac{1}{16}$	$1\frac{3}{16}$	$\frac{1}{16}$	.070	.003	1.051	.006
-24	$1\frac{1}{8}$	$1\frac{1}{4}$	$\frac{1}{16}$	.070	.003	1.114	.006
-25	$1\frac{3}{16}$	$1\frac{5}{16}$	$\frac{1}{16}$	.070	.003	1.176	.006
-26	$1\frac{1}{4}$	$1\frac{3}{8}$	$\frac{1}{16}$	.070	.003	1.239	.006
-27	$1\frac{5}{16}$	$1\frac{7}{16}$	$\frac{1}{16}$	.070	.003	1.301	.006
-28	$1\frac{3}{8}$	$1\frac{1}{2}$	$\frac{1}{16}$	.070	.003	1.364	.006
-29	$1\frac{1}{2}$	$1\frac{5}{8}$	$\frac{1}{16}$	.070	.003	1.489	.010
-30	$1\frac{5}{8}$	$1\frac{3}{4}$	$\frac{1}{16}$	.070	.003	1.614	.010
-31	$1\frac{3}{4}$	$1\frac{7}{8}$	$\frac{1}{16}$	.070	.003	1.739	.010
-32	$1\frac{7}{8}$	2	$\frac{1}{16}$	.070	.003	1.864	.010
-33	2	$2\frac{1}{8}$	$\frac{1}{16}$	.070	.003	1.989	.010
-34	$2\frac{1}{8}$	$2\frac{1}{4}$	$\frac{1}{16}$	.070	.003	2.114	.010
-35	$2\frac{1}{4}$	$2\frac{3}{8}$	$\frac{1}{16}$	.070	.003	2.239	.010
-36	$2\frac{3}{8}$	$2\frac{1}{2}$	$\frac{1}{16}$	.070	.003	2.364	.010
-37	$2\frac{1}{2}$	$2\frac{5}{8}$	$\frac{1}{16}$	.070	.003	2.489	.010
-38	$2\frac{5}{8}$	$2\frac{3}{4}$	$\frac{1}{16}$	.070	.003	2.614	.010
-39	$2\frac{3}{4}$	$2\frac{7}{8}$	$\frac{1}{16}$	.070	.003	2.739	.015
-40	$2\frac{7}{8}$	3	$\frac{1}{16}$	.070	.003	2.864	.015
-41	3	$3\frac{1}{8}$	$\frac{1}{16}$	.070	.003	2.989	.015
-42	$3\frac{1}{4}$	$3\frac{3}{8}$	$\frac{1}{16}$	.070	.003	3.239	.015
-43	$3\frac{1}{2}$	$3\frac{5}{8}$	$\frac{1}{16}$	.070	.003	3.489	.015
-44	$3\frac{3}{4}$	$3\frac{7}{8}$	$\frac{1}{16}$	.070	.003	3.739	.015
-45	4	$4\frac{1}{8}$	$\frac{1}{16}$	.070	.003	3.989	.015
-110	$\frac{3}{8}$	$\frac{9}{16}$	$\frac{3}{32}$	.103	.003	.362	.005
-111	$\frac{7}{16}$	$\frac{9}{8}$	$\frac{3}{32}$	.103	.003	.424	.005
-112	$\frac{1}{2}$	$1\frac{1}{16}$	$\frac{3}{32}$	.103	.003	.487	.005
-113	$\frac{9}{16}$	$\frac{3}{4}$	$\frac{3}{32}$	.103	.003	.549	.005
-114	$\frac{5}{8}$	$1\frac{1}{16}$	$\frac{3}{32}$	.103	.003	.612	.005
-115	$1\frac{1}{16}$	$\frac{7}{8}$	$\frac{3}{32}$	.103	.003	.674	.005
-116	$\frac{3}{4}$	$1\frac{5}{16}$	$\frac{3}{32}$	.103	.003	.737	.005
-117	$1\frac{1}{16}$	1	$\frac{3}{32}$	.103	.003	.799	.006
-118	$\frac{7}{8}$	$1\frac{1}{16}$	$\frac{3}{32}$	.103	.003	.862	.006
-119	$1\frac{5}{16}$	$1\frac{1}{8}$	$\frac{3}{32}$	.103	.003	.924	.006
-120	1	$1\frac{3}{16}$	$\frac{3}{32}$	.103	.003	.987	.006
-121	$1\frac{1}{16}$	$1\frac{1}{4}$	$\frac{3}{32}$	.103	.003	1.049	.006
-122	$1\frac{1}{8}$	$1\frac{5}{16}$	$\frac{3}{32}$	.103	.003	1.112	.006
-123	$1\frac{3}{16}$	$1\frac{3}{8}$	$\frac{3}{32}$	.103	.003	1.174	.006
-124	$1\frac{1}{4}$	$1\frac{7}{16}$	$\frac{3}{32}$	.103	.003	1.237	.006
-125	$1\frac{5}{16}$	$1\frac{1}{2}$	$\frac{3}{32}$	.103	.003	1.299	.006
-126	$1\frac{3}{8}$	$1\frac{9}{16}$	$\frac{3}{32}$	.103	.003	1.362	.006
-127	$1\frac{7}{16}$	$1\frac{5}{8}$	$\frac{3}{32}$	.103	.003	1.424	.006
-128	$1\frac{1}{2}$	$1\frac{11}{16}$	$\frac{3}{32}$	.103	.003	1.487	.006
-129	$1\frac{9}{16}$	$1\frac{3}{4}$	$\frac{3}{32}$	.103	.003	1.549	.010
-130	$1\frac{5}{8}$	$1\frac{13}{16}$	$\frac{3}{32}$	.103	.003	1.612	.010
-131	$1\frac{11}{16}$	$1\frac{7}{8}$	$\frac{3}{32}$	.103	.003	1.674	.010
-132	$1\frac{3}{4}$	$1\frac{15}{16}$	$\frac{3}{32}$	.103	.003	1.737	.010
-133	$1\frac{13}{16}$	2	$\frac{3}{32}$	.103	.003	1.799	.010
-134	$1\frac{7}{8}$	$2\frac{1}{16}$	$\frac{3}{32}$	.103	.003	1.862	.010
-135	$1\frac{15}{16}$	$2\frac{1}{8}$	$\frac{3}{32}$	.103	.003	1.925	.010
-136	2	$2\frac{3}{16}$	$\frac{3}{32}$	.103	.003	1.987	.010
-137	$2\frac{1}{16}$	$2\frac{1}{4}$	$\frac{3}{32}$	.103	.003	2.050	.010
-138	$2\frac{1}{8}$	$2\frac{5}{16}$	$\frac{3}{32}$	.103	.003	2.112	.010
-139	$2\frac{3}{16}$	$2\frac{3}{8}$	$\frac{3}{32}$	.103	.003	2.175	.010
-140	$2\frac{1}{4}$	$2\frac{7}{16}$	$\frac{3}{32}$	.103	.003	2.237	.010
-141	$2\frac{5}{16}$	$2\frac{1}{2}$	$\frac{3}{32}$	.103	.003	2.300	.010
-142	$2\frac{3}{8}$	$2\frac{9}{16}$	$\frac{3}{32}$	.103	.003	2.362	.010
-143	$2\frac{7}{16}$	$2\frac{5}{8}$	$\frac{3}{32}$	.103	.003	2.425	.010
-144	$2\frac{1}{2}$	$2\frac{11}{16}$	$\frac{3}{32}$	.103	.003	2.487	.010
-145	$2\frac{9}{16}$	$2\frac{3}{4}$	$\frac{3}{32}$	.103	.003	2.550	.010

Size Dash No.	Nominal Size			Actual Size			
	I.D.	O.D.	W.	W.	±	I.D.	±
-146	$2\frac{5}{8}$	$2\frac{13}{16}$	$\frac{3}{32}$	.103	.003	2.612	.010
-147	$2\frac{11}{16}$	$2\frac{7}{8}$	$\frac{3}{32}$	.103	.003	2.675	.015
-148	$2\frac{3}{4}$	$2\frac{15}{16}$	$\frac{3}{32}$	.103	.003	2.737	.015
-149	$2\frac{13}{16}$	3	$\frac{3}{32}$	.103	.003	2.800	.015
-150	$2\frac{7}{8}$	$3\frac{1}{16}$	$\frac{3}{32}$	.103	.003	2.862	.015
-151	3	$3\frac{3}{16}$	$\frac{3}{32}$	.103	.003	2.987	.015
-152	$3\frac{1}{4}$	$3\frac{7}{16}$	$\frac{3}{32}$	.103	.003	3.237	.015
-153	$3\frac{1}{2}$	$3\frac{11}{16}$	$\frac{3}{32}$	.103	.003	3.487	.015
-154	$3\frac{3}{4}$	$3\frac{15}{16}$	$\frac{3}{32}$	.103	.003	3.737	.015
-155	4	$4\frac{1}{16}$	$\frac{3}{32}$	.103	.003	3.987	.015
-156	$4\frac{1}{4}$	$4\frac{7}{16}$	$\frac{3}{32}$	.103	.003	4.237	.015
-157	$4\frac{1}{2}$	$4\frac{11}{16}$	$\frac{3}{32}$	.103	.003	4.487	.015
-158	$4\frac{3}{4}$	$4\frac{15}{16}$	$\frac{3}{32}$	.103	.003	4.737	.015
-159	5	$5\frac{1}{16}$	$\frac{3}{32}$	.103	.003	4.987	.015
-160	$5\frac{1}{4}$	$5\frac{7}{16}$	$\frac{3}{32}$	.103	.003	5.237	.023
-161	$5\frac{1}{2}$	$5\frac{11}{16}$	$\frac{3}{32}$	.103	.003	5.487	.023
-162	$5\frac{3}{4}$	$5\frac{15}{16}$	$\frac{3}{32}$	.103	.003	5.737	.023
-163	6	$6\frac{1}{16}$	$\frac{3}{32}$	.103	.003	5.987	.023
-210	$\frac{3}{4}$	1	$\frac{1}{8}$	.139	.004	.734	.006
-211	$1\frac{1}{16}$	$1\frac{1}{8}$	$\frac{1}{8}$	.139	.004	.796	.006
-212	$\frac{7}{8}$	$1\frac{1}{8}$	$\frac{1}{8}$	.139	.004	.859	.006
-213	$1\frac{1}{16}$	$1\frac{1}{4}$	$\frac{1}{8}$	.139	.004	.921	.006
-214	1	$1\frac{1}{4}$	$\frac{1}{8}$	.139	.004	.984	.006
-215	$1\frac{1}{16}$	$1\frac{5}{16}$	$\frac{1}{8}$	.139	.004	1.046	.006
-216	$1\frac{1}{8}$	$1\frac{3}{8}$	$\frac{1}{8}$	.139	.004	1.109	.006
-217	$1\frac{3}{16}$	$1\frac{7}{16}$	$\frac{1}{8}$	.139	.004	1.171	.006
-218	$1\frac{1}{4}$	$1\frac{9}{16}$	$\frac{1}{8}$	.139	.004	1.234	.006
-219	$1\frac{5}{16}$	$1\frac{11}{16}$	$\frac{1}{8}$	.139	.004	1.296	.006
-220	$1\frac{3}{8}$	$1\frac{5}{8}$	$\frac{1}{8}$	.139	.004	1.359	.006
-221	$1\frac{7}{16}$	$1\frac{11}{16}$	$\frac{1}{8}$	.139	.004	1.421	.006
-222	$1\frac{1}{2}$	$1\frac{3}{4}$	$\frac{1}{8}$	.139	.004	1.484	.006
-223	$1\frac{5}{8}$	$1\frac{7}{8}$	$\frac{1}{8}$	.139	.004	1.609	.010
-224	$1\frac{3}{4}$	2	$\frac{1}{8}$	.139	.004	1.734	.010
-225	$1\frac{7}{8}$	$2\frac{1}{8}$	$\frac{1}{8}$	.139	.004	1.859	.010
-226	2	$2\frac{1}{4}$	$\frac{1}{8}$	.139	.004	1.984	.010
-227	$2\frac{1}{8}$	$2\frac{3}{8}$	$\frac{1}{8}$	.139	.004	2.109	.010
-228	$2\frac{1}{4}$	$2\frac{5}{8}$	$\frac{1}{8}$	.139	.004	2.234	.010
-229	$2\frac{3}{8}$	$2\frac{7}{8}$	$\frac{1}{8}$	.139	.004	2.359	.010
-230	$2\frac{1}{2}$	$2\frac{3}{4}$	$\frac{1}{8}$	.139	.004	2.484	.010
-231	$2\frac{5}{8}$	$2\frac{7}{8}$	$\frac{1}{8}$	.139	.004	2.609	.010
-232	$2\frac{3}{4}$	3	$\frac{1}{8}$	.139	.004	2.734	.015
-233	$2\frac{7}{8}$	$3\frac{1}{8}$	$\frac{1}{8}$	.139	.004	2.859	.015
-234	3	$3\frac{1}{4}$	$\frac{1}{8}$	.139	.004	2.984	.015
-235	$3\frac{1}{8}$	$3\frac{3}{8}$	$\frac{1}{8}$	.139	.004	3.109	.015
-236	$3\frac{1}{4}$	$3\frac{1}{2}$	$\frac{1}{8}$	.139	.004	3.234	.015
-237	$3\frac{3}{8}$	$3\frac{5}{8}$	$\frac{1}{8}$	.139	.004	3.359	.015
-238	$3\frac{1}{2}$	$3\frac{3}{4}$	$\frac{1}{8}$	.139	.004	3.484	.015
-239	$3\frac{5}{8}$	$3\frac{7}{8}$	$\frac{1}{8}$	.139	.004	3.609	.015
-240	$3\frac{3}{4}$	4	$\frac{1}{8}$	.139	.004	3.734	.015
-241	$3\frac{7}{8}$	$4\frac{1}{8}$	$\frac{1}{8}$	.139	.004	3.859	.015
-242	4	$4\frac{1}{4}$	$\frac{1}{8}$	.139	.004	3.984	.015
-243	$4\frac{1}{8}$	$4\frac{3}{8}$	$\frac{1}{8}$	.139	.004	4.109	.015
-244	$4\frac{1}{4}$	$4\frac{1}{2}$	$\frac{1}{8}$	.139	.004	4.234	.015
-245	$4\frac{3}{8}$	$4\frac{5}{8}$	$\frac{1}{8}$	.139	.004	4.359	.015
-246	$4\frac{1}{2}$	$4\frac{3}{4}$	$\frac{1}{8}$	.139	.004	4.484	.015
-247	$4\frac{5}{8}$	$4\frac{7}{8}$	$\frac{1}{8}$	.139	.004	4.609	.015
-248	$4\frac{3}{4}$	5	$\frac{1}{8}$	.139	.004	4.734	.015
-249	$4\frac{7}{8}$	$5\frac{1}{8}$	$\frac{1}{8}$	.139	.004	4.859	.015
-250	5	$5\frac{1}{4}$	$\frac{1}{8}$	.139	.004	4.984	.015
-251	$5\frac{1}{8}$	$5\frac{3}{8}$	$\frac{1}{8}$	.139	.004	5.109	.023
-252	$5\frac{1}{4}$	$5\frac{1}{2}$	$\frac{1}{8}$	.139	.004	5.234	.023

NEED HELP ON BEARINGS—CALL US

O-RINGS

SPECIFY MATERIAL CODE AND SIZE DASH NUMBER

SEE PAGE 339 FOR ORDERING INSTRUCTIONS

Size Dash No.	Nominal Size			Actual Size			
	I.D.	O.D.	W.	W.	±	I.D.	±
-253	5 ³ / ₈	5 ⁵ / ₈	1 ¹ / ₈	.139	.004	5.359	.023
-254	5 ¹ / ₂	5 ³ / ₄	1 ¹ / ₈	.139	.004	5.484	.023
-255	5 ⁵ / ₈	5 ⁷ / ₈	1 ¹ / ₈	.139	.004	5.609	.023
-256	5 ³ / ₄	6	1 ¹ / ₈	.139	.004	5.734	.023
-257	5 ⁷ / ₈	6 ¹ / ₈	1 ¹ / ₈	.139	.004	5.859	.023
-258	6	6 ¹ / ₄	1 ¹ / ₈	.139	.004	5.984	.023
-259	6 ¹ / ₄	6 ¹ / ₂	1 ¹ / ₈	.139	.004	6.234	.023
-260	6 ¹ / ₂	6 ³ / ₄	1 ¹ / ₈	.139	.004	6.484	.023
-261	6 ³ / ₄	7	1 ¹ / ₈	.139	.004	6.734	.023
-262	7	7 ¹ / ₄	1 ¹ / ₈	.139	.004	6.984	.023
-263	7 ¹ / ₄	7 ¹ / ₂	1 ¹ / ₈	.139	.004	7.234	.030
-264	7 ¹ / ₂	7 ³ / ₄	1 ¹ / ₈	.139	.004	7.484	.030
-265	7 ³ / ₄	8	1 ¹ / ₈	.139	.004	7.734	.030
-266	8	8 ¹ / ₄	1 ¹ / ₈	.139	.004	7.984	.030
-267	8 ¹ / ₄	8 ¹ / ₂	1 ¹ / ₈	.139	.004	8.234	.030
-268	8 ¹ / ₂	8 ³ / ₄	1 ¹ / ₈	.139	.004	8.484	.030
-269	8 ³ / ₄	9	1 ¹ / ₈	.139	.004	8.734	.030
-270	9	9 ¹ / ₄	1 ¹ / ₈	.139	.004	8.984	.030
-271	9 ¹ / ₄	9 ¹ / ₂	1 ¹ / ₈	.139	.004	9.234	.030
-272	9 ¹ / ₂	9 ³ / ₄	1 ¹ / ₈	.139	.004	9.484	.030
-273	9 ³ / ₄	10	1 ¹ / ₈	.139	.004	9.734	.030
-274	10	10 ¹ / ₄	1 ¹ / ₈	.139	.004	9.984	.030
-275	10 ¹ / ₂	10 ³ / ₄	1 ¹ / ₈	.139	.004	10.484	.030
-276	11	11 ¹ / ₄	1 ¹ / ₈	.139	.004	10.984	.030
-277	11 ¹ / ₂	11 ³ / ₄	1 ¹ / ₈	.139	.004	11.484	.030
-278	12	12 ¹ / ₄	1 ¹ / ₈	.139	.004	11.984	.030
-279	13	13 ¹ / ₄	1 ¹ / ₈	.139	.004	12.984	.030
-280	14	14 ¹ / ₄	1 ¹ / ₈	.139	.004	13.984	.030
-281	15	15 ¹ / ₄	1 ¹ / ₈	.139	.004	14.984	.030
-325	1 ¹ / ₂	1 ⁷ / ₈	3 ¹ / ₁₆	.210	.005	1.475	.010
-326	1 ⁵ / ₈	2	3 ¹ / ₁₆	.210	.005	1.600	.010
-327	1 ³ / ₄	2 ¹ / ₈	3 ¹ / ₁₆	.210	.005	1.725	.010
-328	1 ⁷ / ₈	2 ¹ / ₄	3 ¹ / ₁₆	.210	.005	1.850	.010
-329	2	2 ³ / ₈	3 ¹ / ₁₆	.210	.005	1.975	.010
-330	2 ¹ / ₈	2 ¹ / ₂	3 ¹ / ₁₆	.210	.005	2.100	.010
-331	2 ¹ / ₄	2 ⁵ / ₈	3 ¹ / ₁₆	.210	.005	2.225	.010
-332	2 ³ / ₈	2 ³ / ₄	3 ¹ / ₁₆	.210	.005	2.350	.010
-333	2 ¹ / ₂	2 ⁷ / ₈	3 ¹ / ₁₆	.210	.005	2.475	.010
-334	2 ⁵ / ₈	3	3 ¹ / ₁₆	.210	.005	2.600	.010
-335	2 ³ / ₄	3 ¹ / ₈	3 ¹ / ₁₆	.210	.005	2.725	.015
-336	2 ⁷ / ₈	3 ¹ / ₄	3 ¹ / ₁₆	.210	.005	2.850	.015
-337	3	3 ³ / ₈	3 ¹ / ₁₆	.210	.005	2.975	.015
-338	3 ¹ / ₈	3 ¹ / ₂	3 ¹ / ₁₆	.210	.005	3.100	.015
-339	3 ¹ / ₄	3 ⁵ / ₈	3 ¹ / ₁₆	.210	.005	3.225	.015
-340	3 ³ / ₈	3 ³ / ₄	3 ¹ / ₁₆	.210	.005	3.350	.015

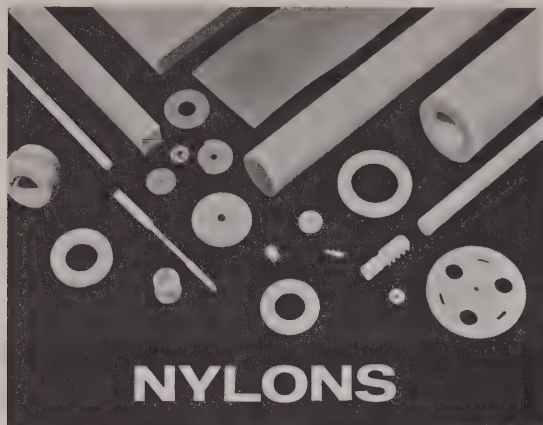
Size Dash No.	Nominal Size			Actual Size			
	I.D.	O.D.	W.	W.	±	I.D.	±
-341	3 ¹ / ₂	3 ⁷ / ₈	3 ¹ / ₁₆	.210	.005	3.475	.015
-342	3 ³ / ₈	4	3 ¹ / ₁₆	.210	.005	3.600	.015
-343	3 ³ / ₄	4 ¹ / ₈	3 ¹ / ₁₆	.210	.005	3.725	.015
-344	3 ⁷ / ₈	4 ¹ / ₄	3 ¹ / ₁₆	.210	.005	3.850	.015
-345	4	4 ⁵ / ₈	3 ¹ / ₁₆	.210	.005	3.975	.015
-346	4 ¹ / ₈	4 ¹ / ₂	3 ¹ / ₁₆	.210	.005	4.100	.015
-347	4 ¹ / ₄	4 ⁵ / ₈	3 ¹ / ₁₆	.210	.005	4.225	.015
-348	4 ³ / ₈	4 ³ / ₄	3 ¹ / ₁₆	.210	.005	4.350	.015
-349	4 ¹ / ₂	4 ⁷ / ₈	3 ¹ / ₁₆	.210	.005	4.475	.015
-425	4 ¹ / ₂	5	1 ¹ / ₄	.275	.006	4.475	.015
-426	4 ⁵ / ₈	5 ¹ / ₈	1 ¹ / ₄	.275	.006	4.600	.015
-427	4 ³ / ₄	5 ¹ / ₄	1 ¹ / ₄	.275	.006	4.725	.015
-428	4 ⁷ / ₈	5 ³ / ₈	1 ¹ / ₄	.275	.006	4.850	.015
-429	5	5 ¹ / ₂	1 ¹ / ₄	.275	.006	4.975	.015
-430	5 ¹ / ₈	5 ⁵ / ₈	1 ¹ / ₄	.275	.006	5.100	.023
-431	5 ¹ / ₄	5 ³ / ₄	1 ¹ / ₄	.275	.006	5.225	.023
-432	5 ³ / ₈	5 ⁷ / ₈	1 ¹ / ₄	.275	.006	5.350	.023
-433	5 ¹ / ₂	6	1 ¹ / ₄	.275	.006	5.475	.023
-434	5 ⁵ / ₈	6 ¹ / ₈	1 ¹ / ₄	.275	.006	5.600	.023
-435	5 ³ / ₄	6 ¹ / ₄	1 ¹ / ₄	.275	.006	5.725	.023
-436	5 ⁷ / ₈	6 ³ / ₈	1 ¹ / ₄	.275	.006	5.850	.023
-437	6	6 ¹ / ₂	1 ¹ / ₄	.275	.006	5.975	.023
-438	6 ¹ / ₄	6 ³ / ₄	1 ¹ / ₄	.275	.006	6.225	.023
-439	6 ¹ / ₂	7	1 ¹ / ₄	.275	.006	6.475	.023
-440	6 ³ / ₄	7 ¹ / ₄	1 ¹ / ₄	.275	.006	6.725	.023
-441	7	7 ¹ / ₂	1 ¹ / ₄	.275	.006	6.975	.023
-442	7 ¹ / ₄	7 ³ / ₄	1 ¹ / ₄	.275	.006	7.225	.030
-443	7 ¹ / ₂	8	1 ¹ / ₄	.275	.006	7.475	.030
-444	7 ³ / ₄	8 ¹ / ₄	1 ¹ / ₄	.275	.006	7.725	.030
-445	8	8 ¹ / ₂	1 ¹ / ₄	.275	.006	7.975	.030
-446	8 ¹ / ₂	9	1 ¹ / ₄	.275	.006	8.475	.030
-447	9	9 ¹ / ₂	1 ¹ / ₄	.275	.006	8.975	.030
-448	9 ¹ / ₂	10	1 ¹ / ₄	.275	.006	9.475	.030
-449	10	10 ¹ / ₂	1 ¹ / ₄	.275	.006	9.975	.030
-450	10 ¹ / ₂	11	1 ¹ / ₄	.275	.006	10.475	.030
-451	11	11 ¹ / ₂	1 ¹ / ₄	.275	.006	10.975	.030
-452	11 ¹ / ₂	12	1 ¹ / ₄	.275	.006	11.475	.030
-453	12	12 ¹ / ₂	1 ¹ / ₄	.275	.006	11.975	.030
-454	12 ¹ / ₂	13	1 ¹ / ₄	.275	.006	12.475	.030
-455	13	13 ¹ / ₂	1 ¹ / ₄	.275	.006	12.975	.030
-456	13 ¹ / ₂	14	1 ¹ / ₄	.275	.006	13.475	.030
-457	14	14 ¹ / ₂	1 ¹ / ₄	.275	.006	13.975	.030
-458	14 ¹ / ₂	15	1 ¹ / ₄	.275	.006	14.475	.030
-459	15	15 ¹ / ₂	1 ¹ / ₄	.275	.006	14.975	.030
-460	15 ¹ / ₂	16	1 ¹ / ₄	.275	.006	15.475	.030

STANDARD SIZES FOR TUBE FITTINGS

Size Dash No.	Tube Outside Diameter	O-Ring Size—Actual			
		I.D.	±	W.	±
-1	3 ³ / ₃₂	.185	.005	.056	.003
-2	1 ¹ / ₈	.239	.005	.064	.003
-3	3 ¹ / ₁₆	.301	.005	.064	.003
-4	1 ¹ / ₄	.351	.005	.072	.003
-5	5 ¹ / ₁₆	.414	.005	.072	.003
-6	3 ¹ / ₈	.468	.005	.078	.003
-7	7 ¹ / ₁₆	.530	.005	.082	.003
-8	1 ¹ / ₂	.644	.005	.087	.003
-9	9 ¹ / ₁₆	.706	.005	.097	.003
-10	5 ¹ / ₈	.755	.005	.097	.003

Size Dash No.	Tube Outside Diameter	O-Ring Size—Actual			
		I.D.	±	W.	±
-11	1 ¹ / ₁₆	.863	.005	.116	.004
-12	9 ¹ / ₄	.924	.006	.116	.004
-14	7 ¹ / ₈	1.048	.006	.116	.004
-16	1	1.171	.006	.116	.004
-20	1 ¹ / ₄	1.475	.010	.118	.004
-24	1 ¹ / ₂	1.720	.010	.118	.004
-28	1 ³ / ₄	2.090	.010	.118	.004
-32	2	2.337	.010	.118	.004

NEED HELP ON BEARINGS—CALL US

**NYLONS**

Nylon 101 parts are economically fabricated from stock shapes like these, on standard metalworking equipment. Close tolerances and uniform dimensions are readily obtained.

POLYPENCO* NYLON 101

Polypenco nylons combine the chemical and corrosion resistance and insulating characteristics of plastics with premium mechanical properties usually associated with metals. Its superior wear and abrasion resistance, low coefficient of friction, resilience and other excellent functional properties make *Polypenco* nylons an ideal maintenance material.

Applications: Widely used for gears, bushings, bearings, rollers, thrust washers, other wear surfaces and similar parts.

Stock Shapes and Sizes:

ROD: $\frac{1}{16}$ " to 8" diameters, various lengths

PLATE: $\frac{3}{16}$ " to $1\frac{1}{2}$ " thick, 4' random lengths

STRIP: .010" to .125" thick, $\frac{1}{4}$ " to 6" widths

DISCS: $\frac{1}{4}$ " to 2" thick, 6" to 17" diameters

TUBULAR BAR: 2" to 15" O.D., $\frac{3}{8}$ " to $1\frac{1}{2}$ " wall thicknesses depending on O.D.

TUBING: .064" to .259" O.D., various wall thicknesses, in continuous coiled lengths

Hexagonal, square, and profiled shapes also available; non-standard sizes made to order.

*Trademark of The Polymer Corporation

**NYLATRON GS**

NYLATRON GS mill shapes provide long wear and low friction sliding surfaces for runners, conveyor, and channel tracks, wear pads and similar installations.

POLYPENCO NYLATRON* GS NYLON

NYLATRON GS is a molybdenum disulphide filled nylon†, designed to improve mechanical and thermal properties of nylon 101, while maintaining basic electrical and chemical characteristics. It offers high tensile and compressive strength and greater hardness than conventional nylon provides. Its MoS₂ filler also provides premium self-lubricating qualities.

Applications: Parts machined from NYLATRON GS are widely used for rollers, cams, cam followers, thrust washers, wear strips and other parts which cannot be lubricated regularly.

Stock Shapes and Sizes:

ROD: $\frac{1}{8}$ " to 5" diameters, 12" to 8' lengths

STRIP: .010" to .125" thick, to 4" widths

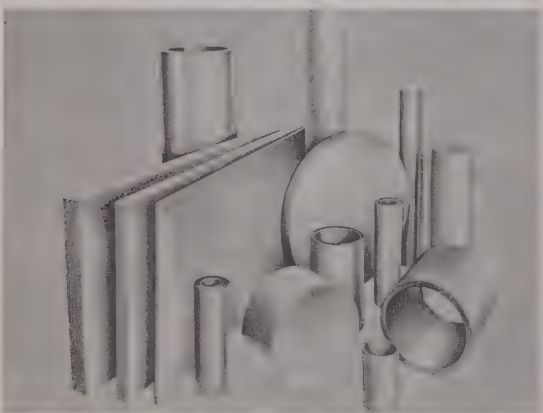
TUBING: 2" to 8" O.D., $\frac{3}{8}$ " to $1\frac{1}{2}$ " walls

SLABS: $\frac{1}{4}$ " to $\frac{3}{4}$ " thick, 2" to 4" widths

DISCS: $\frac{1}{2}$ " to 2" thick, 6" to 12" diameters

†Patented

*Trademark of The Polymer Corporation



MONOCAST nylon stock shapes, as well as cast shapes, offer exceptional wear and frictional properties, high tensile strength, good resistance to impact and vibration.

POLYPENCO MONOCAST† (MC*) NYLON**—In Mill Shapes and Cast Parts**

The new process for casting MONOCAST nylon now makes unusually large nylon parts available with outstanding economies. MONOCAST nylon products and components of almost unlimited sizes now economically bring premium property advantages to large rollers, gears and cams, contoured guides, intricate tooling and dies, bearings and general wear parts. Complex MONOCAST shapes offer sizable cost savings over stainless steel, bronze and brass parts of comparable design.

Mill Shapes Available:

TUBULAR BAR: 2" to 15" O.D., 1" to $14\frac{1}{4}$ " I.D., 8" and 13" lengths.

PLATE: $\frac{1}{4}$ " to 4" thick, size 24" x 48" (other sizes on special order)

ROD: 3" to 8" diameters, various lengths

CAST PARTS weighing from 1 to 100 pounds and over (equivalent in size to steel castings weighing 7 to 700 pounds) are being produced in symmetrical and complex shapes.

*Trademark of The Polymer Corporation

†Protected by patents and patent applications

POLYPENCO TFE-Fluorocarbon

Polypenco Teflon* mill shapes are processed to meet rigid performance, quality and cost requirements. Exceptional resistance to corrosion, high heat resistance, impact strength, weatherability and other premium property advantages are obtained for a wide range of mechanical, chemical and electrical applications. Another excellent maintenance material for many uses.

Applications: Uses include pump and valve components, gaskets, packings, adapters, baffles, bearings, anti-stick surfaces, wire wrappings, spacers, insulators, etc.

Stock Shapes and Sizes:

ROD: $\frac{1}{8}$ " to $8\frac{3}{4}$ " in various lengths

TUBING (rigid): $\frac{1}{2}$ " to 11" O.D., $\frac{1}{4}$ " to 7" I.D. depending on outside diameter

THIN-WALL TUBING: $\frac{1}{8}$ " to $\frac{1}{2}$ " I.D. with .030" wall

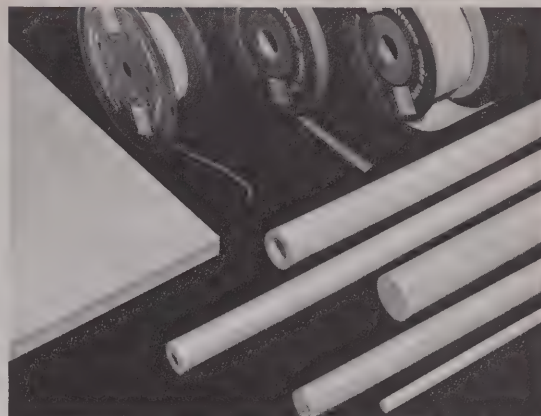
SPAGHETTI TUBING: AWG sizes 30 to 0, 10 colors

TAPE: .002" to .125" thick, $\frac{1}{2}$ " to 12" widths (10 NEMA colors); etched tape also available

BEADING: Round, .030" to .150" diameters; Square, .020" to .156" across flats

SHEET: $\frac{1}{32}$ " to 8" thick; 25" x 25" and 48" x 48" square depending on thickness; Etched sheet also available

*Teflon is a DuPont Trademark



Users of specially-formulated *Polypenco* TFE-fluorocarbon stock shapes can be sure of getting the very finest quality obtainable, fully tested and inspected for uniformity.

POLYPENCO FLUOROSINT*

Ceramic-like fluorocarbon

Mill Shapes

FLUOROSINT is a "ceramic-like" fluorocarbon—an ideal heat resistant, mechanically stable insulating material. It has outstanding property advantages compared with unmodified TFE-fluorocarbon. It has exceptional rigidity—will not flow under pressure. Its coefficient of thermal expansion is only one-sixth as high. Its bearing and wear characteristics permit much higher loads and speeds, and exceptional electrical insulating qualities and chemical resistance are maintained.

Applications: A broad range of mechanical, chemical and electrical uses include bearings, bushings, sliding surfaces, insulating and insulator wear parts, gaskets, valve seats and similar parts.

Stock Shapes and Sizes:

ROD: $\frac{3}{4}$ " to 11" diameters

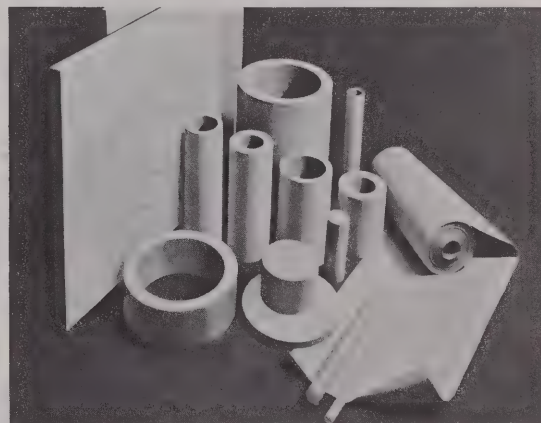
SHEET: $\frac{1}{4}$ " to 4" thick; sizes to $25\frac{1}{2}$ " by $25\frac{1}{2}$ "

TUBING: $1\frac{1}{4}$ " to 11" O.D., $\frac{1}{2}$ " to 7" I.D. depending on outside diameter

TAPE: .010" to .062" thick, $\frac{1}{2}$ " to 12" widths

*Trademark of The Polymer Corporation

†Patents applied for



FLUOROSINT shapes provide greatly improved mechanical and thermal properties over standard TFE-fluorocarbon, without materially affecting TFE's unique electrical and chemical qualities.

POLYPENCO NYLAFLOW* TUBING

NYLAFLOW pressure tubing is a specially processed, flexible polyamide tubing designed for improved performance and reduced costs in conveying air, gases and liquids. **NYLAFLOW** tubing is available with short-time burst pressures of 1000 psi (Type T) and 2500 psi (Type H).

NYLAFLOW tubing offers superior performance characteristics . . . has high strength per unit weight . . . withstands vibration, has long flex life . . . serves a wide temperature range as low as -100°F. and up to 180°F. , offers good corrosion resistance and is unaffected by oils, greases, gasoline, alkalis and most solvents.

Applications: Lightweight, easy to handle, **NYLAFLOW** tubing has proved ideal in hydraulic, pneumatic and lubrication systems, oil, fuel, solvent, vacuum, instrumentation, beverage and similar lines.

Stock Sizes:

Type H and Type T: $\frac{1}{8}$ ", $\frac{3}{16}$ ", $\frac{1}{4}$ ", $\frac{5}{16}$ " and $\frac{3}{8}$ " O.D.; I.D. from .078" through .295" depending on O.D.

*Trademark of The Polymer Corporation



NYLAFLOW pressure tubing has flexibility permitting easy installation. It is used with standard flare or compression fittings designed for metallic tubing.

C/R

CHICAGO RAWHIDE OIL AND GREASE SEALS

C/R

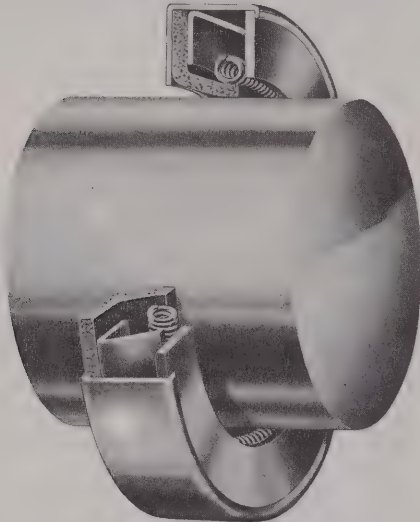
For more than three quarters of a century Chicago Rawhide has been the leader in the field of manufacturing mechanical sealing devices for lubricant retention and dirt exclusion.

The four basic types of C/R seals shown on this page are representative of the more than 44 types available.

Sealing elements of Leather (SIRVIS), Synthetic Rubber (SIRVENE), and Felt are supplied as standard in many types. Seals with Teflon sealing element may be had on special order.

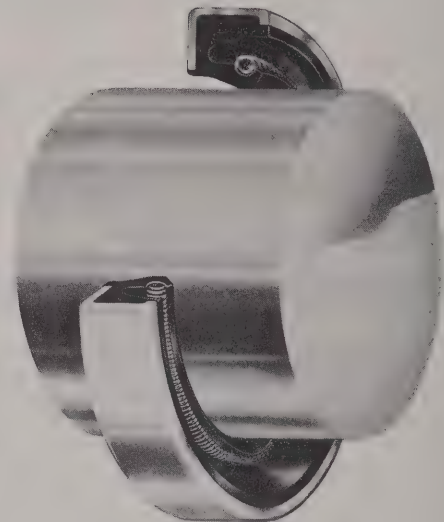
We carry Chicago Rawhide seal stocks in a wide variety of types and sizes. Call our branch nearest you for prompt and efficient service.

Complete Engineering and Dimensional Data Catalog available on request



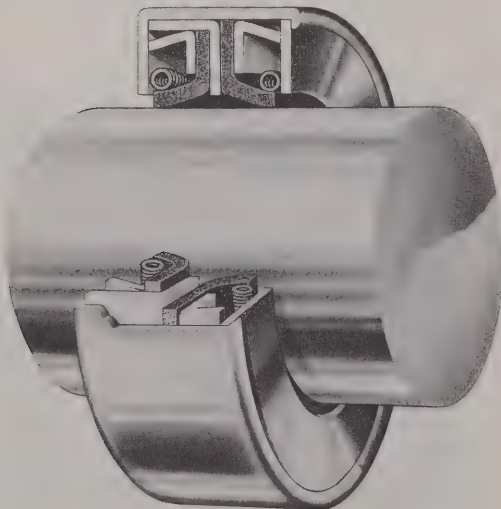
TYPE P—STANDARD

The Type P basic design incorporates a single, spring-loaded Sirvis leather or Sirvene sealing member. It is adaptable to the majority of mechanical sealing requirements, and is used over a wide range of applications, both automotive and industrial. It can be used in place of the Type W design, where dimensionally interchangeable.



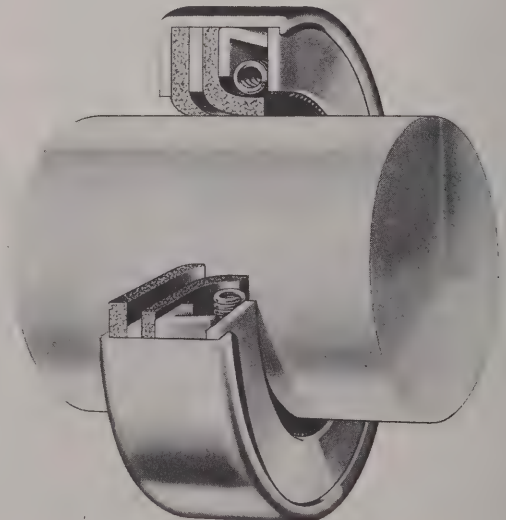
TYPE HMS—BONDED

The Type HMS basic design consists of a single spring-loaded Sirvene member bonded to a metal case. These designs are generally used for specific applications such as automatic transmissions, pumps, power steering and other power units.



TYPE D—DUAL OPPOSED

The Type D basic design incorporates two opposed, spring-loaded sealing members in a single case. It is usually used to separate two fluids. The letter "D" after the first three digits of the part number indicates that both members are Sirvis leather; "DM", one Sirvis and one Sirvene; "DMM", both Sirvene (synthetic rubber).



TYPE B—DUAL TANDEM

The Type B basic design incorporates a non-spring-loaded auxiliary which complements the sealing efficiency of the primary spring-loaded member, and also acts as an exclusion agent. It is usually used where the shaft is assembled through the back, or auxiliary side of the seal.

NEED HELP ON BEARINGS—CALL US

GARLOCK KLOZURES®

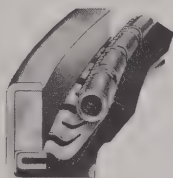
GENERAL PURPOSE



KLOZURE Model 53



Model 63



Model 64

OIL AND GREASE SEALS FOR BEARINGS

Garlock KLOZURES* provide dependable bearing protection, retaining the lubricant in the bearing and excluding dirt and foreign matter from the bearing.

We carry stocks near you in a wide variety of types and sizes. Prompt and efficient service for all your oil and grease seal requirements is as close at hand as our nearest branch.

**Complete Engineering and Dimensional Data
Catalog available on request**

BONDED



KLOZURE Model 71

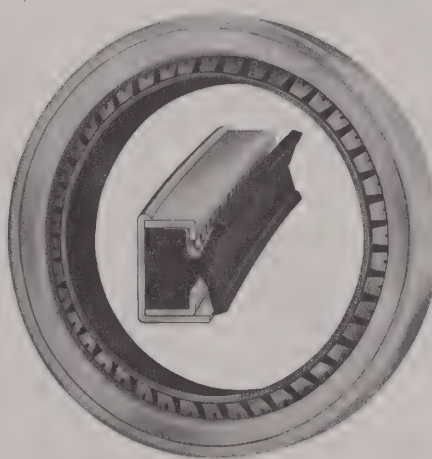


Model 76



Model 94

DUAL OPPOSED



KLOZURE Model 53R1



Model 63R1

SPLIT

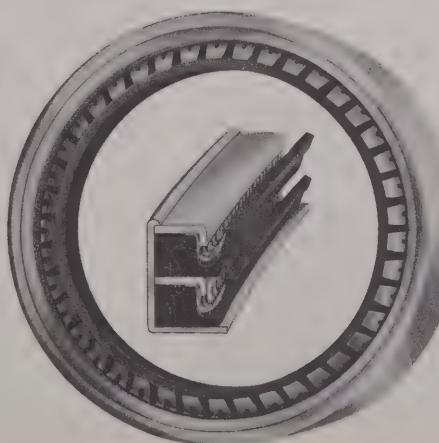


KLOZURE Model 21



Model 23

DUAL TANDEM



KLOZURE Model 53T2



Model 63T2

*Registered trade-mark

NEED HELP ON BEARINGS—CALL US

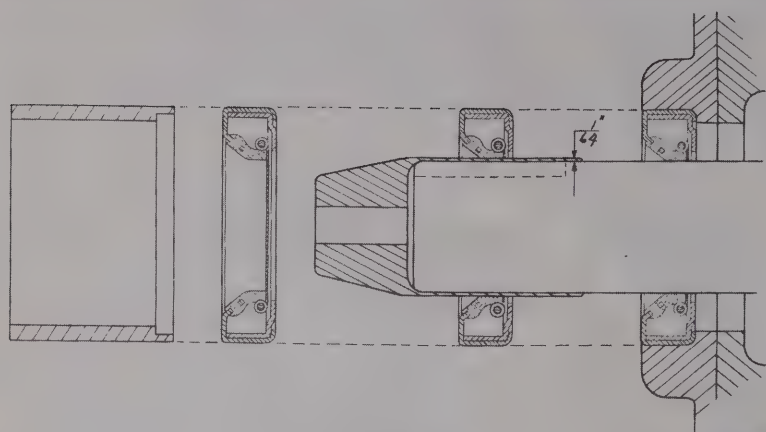
VICTOPRENE OIL SEALS**CORRECT INSTALLATION METHOD**

Fig. 1—Illustrates proper use of oil and seal mounting thimble and pressing tool.

Fig. 2—Illustrates proper use of oil mounting bullet and pressing tool.

VICTOPRENE OIL SEALS

METAL ENCASED BASIC TYPE H

The standard type H oil seal is the basic Victor design for most general applications particularly on the larger shaft sizes. The Buna N synthetic rubber sealing element is molded and chemically bonded to the metal outer case, eliminating the possibility of leakage through the seal structure. Temperature range is from -30°F. to $+250^{\circ}\text{F.}$

The outside diameter of the seal is centerless ground or lathe turned, assuring an exact outside diameter, true circularity and contact with the bore across the full width of the case reducing the possibility of leakage at the seal O.D.

VARIATIONS OF TYPE H



METAL ENCASED BASIC TYPE K

The standard type K oil seal is capable of withstanding greater extremes of temperature and operation at higher peripheral speeds.

The sealing element, of an improved Buna N synthetic rubber, is molded to produce a thin flexible section between the sealing lip and preformed washer assuring maximum flexibility and reduction of frictional drag on the shaft. Operating temperature range is from -40°F. to $+275^{\circ}\text{F.}$

The outside diameter of the seal is centerless ground or lathe turned to assure an O.D. within close tolerances, having true circularity and contact with the bore across the full width of the case. This reduces the possibility of leakage at the seal O.D.

VARIATIONS OF TYPE K



ONE PIECE MOLDED BASIC TYPE K3

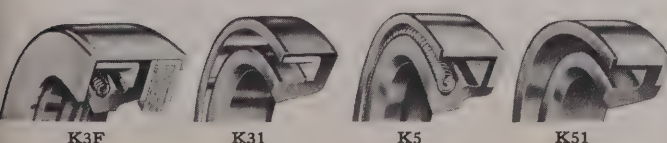
The type K3 oil seal is a simplified design requiring less space axially and radially.

A one-piece molded all rubber seal with a re-enforcing metal case has a sealing member of Buna N synthetic rubber with a temperature range of -40°F. to $+275^{\circ}\text{F.}$ Retains full efficiency at shaft surface speeds up to 3500 f.p.m.

The synthetic rubber on the outside diameter provides positive sealing in this area.

The thin wall section and limited contact sealing member provide maximum flexibility with minimum torque loss.

VARIATIONS OF TYPE K3



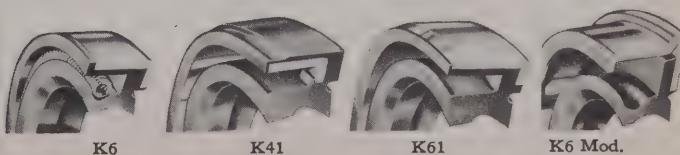
ONE PIECE MOLDED BASIC TYPE K4

The type K4 oil seal is a one-piece molded seal having dual opposed lips for maximum fluid retention and exclusion of foreign material. This design provides sealing of two different lubricants in their respective areas.

The sealing element is permanently molded and chemically bonded to the reinforcing metal case to form an integral unit and the synthetic rubber on the outside diameter provides a positive seal.

The recess between the lips permits the application of a lubricant, prior to installation, which reduces frictional drag and permanently lubricates the seal.

VARIATIONS OF TYPE K4



VICTOPRENE OIL SEALS

PROGRESSIVE SIZE LISTING ARRANGED ACCORDING TO SHAFT DIAMETER

SHAFT DIA.	* HOUSING BORE	WIDTH OF SEAL ±.015	STOCK TYPE	VICTOR NO.	SHAFT DIA.	* HOUSING BORE	WIDTH OF SEAL ±.015	STOCK TYPE	VICTOR NO.
$\frac{3}{16}$ (.187)	.625	$\frac{1}{4}$	K31	63164	$\frac{1}{2}$ (.469)	.999 1.124 1.250	$\frac{3}{8}$ $\frac{3}{8}$ $\frac{3}{8}$	H H H	60039 60041 60043
$\frac{1}{4}$ (.250)	.499 .499 .750 .750	$\frac{3}{8}$ $\frac{1}{8}$ $\frac{1}{4}$ $\frac{1}{4}$	K31 K31 W K31	63156 63213 62032 63171	(.473)	.999 .999 .999	$\frac{3}{8}$ $\frac{1}{4}$ $\frac{1}{4}$	H K3 K30	60047 64047 65047
$\frac{5}{16}$ (.312)	.497 .500 .562 .750 .750 .750 .811 .999 1.253	$\frac{1}{8}$ $\frac{1}{8}$ $\frac{1}{8}$ $\frac{1}{4}$ $\frac{1}{2}$ $\frac{1}{4}$ $\frac{1}{4}$ $\frac{3}{8}$ $\frac{3}{8}$	K31 K31 K31 W H K3 K30 K31 H W	63131 63162 63134 62051 60001 64001 65001 63239 60000 63022	$\frac{3}{4}$ (.484)	.999 .999 1.250 1.250	$\frac{3}{8}$ $\frac{3}{8}$ $\frac{3}{8}$ $\frac{3}{8}$	K4 K40 K4 K40	63408 63409 63462 63463
$\frac{1}{2}$ (.343)	.592 .999	$\frac{3}{32}$ $\frac{3}{8}$	W H	63063 60005	$\frac{1}{2}$ (.500)	.687 .750 .750 .873 .875 .999 .999 .999 .999 1.062 1.062 1.121 1.124 1.124 1.124 1.124 1.156 1.156 1.250 1.250 1.250 1.258 1.375 1.375 1.375	$\frac{3}{32}$ $\frac{3}{32}$ $\frac{1}{8}$ $\frac{1}{8}$ $\frac{1}{2}$ $\frac{1}{4}$ $\frac{3}{8}$ $\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$ $\frac{3}{8}$ $\frac{1}{4}$ $\frac{3}{8}$ $\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$ $\frac{3}{8}$ $\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{2}$ $\frac{1}{4}$ $\frac{1}{4}$	K31 W K31 K31 W W H K3 K30 K4 K40 K4 K40 H W H H K3 K30 K4 K40 H K3 K30 H H H K3 K30	63157 63062 63158 63456 62041 62004 60051 64051 65051 63214 66051 67051 63645 63646 60053 62040 60052 60055 64055 65055 63254 63253 60057 64057 65057 60058 60060 64060 65060
$\frac{5}{8}$ (.375)	.562 .687 .750 .750 .750 .875 .906 .999 .999 1.124 1.124 1.124 1.124 1.250 1.250 1.250 1.499 1.499 1.499	$\frac{1}{8}$ $\frac{3}{32}$ $\frac{1}{4}$ $\frac{3}{8}$ $\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$ $\frac{3}{8}$ $\frac{1}{4}$ $\frac{3}{8}$ $\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$ $\frac{3}{8}$ $\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$	K31 K51 W W K3 K30 W W H K3 K30 H K3 K30 H H K3 K30	63517 63487 62031 62038 63232 63106 63090 62061 60010 64010 65010 60012 64012 65012 60014 64014 65014 60016 64016 65016	$\frac{1}{2}$ (.406)	1.124 1.250	$\frac{3}{8}$ $\frac{3}{8}$	H H	60023 60025
$\frac{7}{16}$ (.437)	.620 .750 .999 .999 .999 .999 1.124 1.124 1.124 1.250 1.250 1.250	$\frac{1}{8}$ $\frac{1}{4}$ $\frac{3}{8}$ $\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{2}$ $\frac{1}{4}$ $\frac{1}{4}$ $\frac{3}{8}$ $\frac{1}{4}$ $\frac{1}{2}$	K31 W H K3 K30 K4 K40 H K3 K30 K3 K30	63132 63091 60030 64030 65030 63406 63407 60033 64033 65033 60034 64034 65034	$\frac{1}{2}$ (.531)	.999 1.124 1.250 1.375	$\frac{3}{8}$ $\frac{3}{8}$ $\frac{3}{8}$ $\frac{1}{2}$	H H H H	60065 60067 60069 60071
					$\frac{1}{2}$ (.562)	.750 .999 .999 .999 .999 .999 1.124 1.124	$\frac{1}{8}$ $\frac{3}{8}$ $\frac{1}{2}$ $\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$	K31 H K51 K3 K30 K4 W H	63172 60076 63431 64076 65076 63603 63604 62058 60078

BOLD FACE numbers are popular stock sizes.

LIGHT FACE numbers are available from production tools and limited stock.

*See NUMERICAL Section, pages 365 to 371 for actual seal O.D. dimension.

†Sealing elements opposed.

‡With Offset.



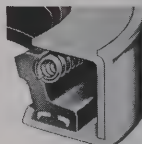
H



HF



HW



K



S



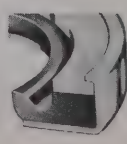
KF



K3F



KW



W

VICTOPRENE OIL SEALS

PROGRESSIVE SIZE LISTING ARRANGED ACCORDING TO SHAFT DIAMETER


K3

SHAFT DIA.	* HOUSING BORE	WIDTH OF SEAL ±.015	STOCK TYPE	VICTOR NO.
$\frac{3}{16}$	1.124	$\frac{1}{4}$	K3	64078
(Cont.)	1.124	$\frac{1}{4}$	K30	65078
	1.124	$\frac{1}{4}$	K31	63219
	1.250	$\frac{3}{8}$	H	60080
	1.250	$\frac{3}{16}$	HW†	63011
	1.250	$\frac{1}{4}$	K3	64080
	1.250	$\frac{1}{4}$	K30	65080
	1.375	$\frac{1}{2}$	H	60082
	1.375	$\frac{1}{4}$	K3	64082
	1.375	$\frac{1}{4}$	K30	65082


K30
 $\frac{1}{32}$
(.593)

1.124	$\frac{3}{8}$	H	60087
1.124	$\frac{1}{4}$	K3	64087
1.124	$\frac{1}{4}$	K30	65087
1.250	$\frac{3}{8}$	H	60089
1.250	$\frac{1}{4}$	K3	64089
1.250	$\frac{1}{4}$	K30	65089
1.375	$\frac{1}{2}$	H	60091
1.375	$\frac{1}{4}$	K3	64091
1.375	$\frac{1}{4}$	K30	65091


K31

K4
 $\frac{3}{64}$
(.609)

1.248	$\frac{1}{4}$	K6	63188
1.248	$\frac{1}{4}$	K60	63255
1.250	$\frac{1}{4}$	K4	63256
1.250	$\frac{1}{4}$	K40	63257


K40
 $\frac{5}{8}$
(.625)

.810	$\frac{3}{32}$	K51	63524
.812	$\frac{3}{32}$	K31	63161
.875	$\frac{3}{32}$	K31	63160
.936	$\frac{3}{16}$	K31	63159
.999	$\frac{1}{4}$	K5	63514
.999	$\frac{1}{4}$	K50	63532
.999	$\frac{1}{8}$	K31	63585
.999	$\frac{1}{4}$	K3	63148
.999	$\frac{1}{4}$	K30	63242


K5

1.124	$\frac{1}{4}$	W	62076
1.124	$\frac{3}{8}$	H	60096
1.124	$\frac{1}{4}$	K3	64096
1.124	$\frac{1}{4}$	K30	65096
1.125	$\frac{3}{16}$	K4	63259
1.125	$\frac{5}{16}$	K40	63144
1.250	$\frac{1}{4}$	W	62000
1.250	$\frac{3}{8}$	H	60098
1.250	$\frac{1}{4}$	K3	64098
1.250	$\frac{1}{4}$	K30	65098
1.250	$\frac{1}{4}$	K4	63243
1.250	$\frac{1}{4}$	K40	63260
1.375	$\frac{1}{2}$	H	60101
1.375	$\frac{1}{4}$	K3	64101
1.375	$\frac{1}{4}$	K30	65101
1.375	$\frac{1}{4}$	K4	66101
1.375	$\frac{1}{4}$	K40	67101
1.377	$\frac{3}{8}$	K4	63464
1.377	$\frac{3}{8}$	K40	63465
1.624	$\frac{1}{4}$	K3	63529
1.624	$\frac{1}{4}$	K30	63596


K50

K6
 $\frac{21}{32}$
(.656)

1.373	$\frac{1}{2}$	H	60106
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K60

BOLD FACE numbers are popular stock sizes.
LIGHT FACE numbers are available from production tools and limited stock.
*See NUMERICAL Section, pages 365 to 371 for actual seal O.D. dimension.

SHAFT DIA.	* HOUSING BORE	WIDTH OF SEAL ±.015	STOCK TYPE	VICTOR NO.
$\frac{3}{4}$ (.671)	1.125	$\frac{1}{4}$	K3	63261
	1.125	$\frac{1}{4}$	K30	63262
	1.375	$\frac{1}{2}$	K6	63548
	1.375	$\frac{1}{2}$	K60	63549
$\frac{11}{16}$ (.687)	1.125	$\frac{1}{4}$	K4	63215
	1.125	$\frac{1}{4}$	K40	63263
	1.250	$\frac{1}{4}$	W	62048
	1.250	$\frac{1}{2}$	H	60109
	1.250	$\frac{1}{4}$	K6	63264
	1.250	$\frac{1}{4}$	K60	63265
	1.250	$\frac{1}{4}$	K3	64109
	1.250	$\frac{1}{4}$	K30	65109
	1.260	$\frac{1}{4}$	K3	64110
	1.260	$\frac{1}{4}$	K30	65110
	1.373	$\frac{1}{2}$	H	60111
	1.373	$\frac{1}{4}$	K3	64111
	1.373	$\frac{1}{4}$	K30	65111
	1.499	$\frac{3}{4}$	H	60113
	1.499	$\frac{1}{4}$	K3	64113
	1.499	$\frac{1}{4}$	K30	65113
$\frac{23}{32}$ (.718)	1.375	$\frac{1}{2}$	H	60118
	1.499	$\frac{3}{4}$	H	60120
$\frac{7}{8}$ (.734)	1.248	$\frac{1}{4}$	K6	63191
	1.248	$\frac{1}{4}$	K60	63266
(.742)	1.062	$\frac{3}{16}$	K31	63267
$\frac{3}{4}$ (.750)	1.000	$\frac{1}{8}$	K50	63185
	1.000	$\frac{1}{8}$	K31	63123
	1.124	$\frac{1}{4}$	K31	63118
	1.125	$\frac{1}{2}$	K31	63122
	1.250	$\frac{1}{4}$	W	62012
	1.250	$\frac{3}{8}$	H	60126
	1.250	$\frac{1}{2}$	H	60127
	1.250	$\frac{1}{4}$	K31	63163
	1.250	$\frac{1}{4}$	K3	64126
	1.250	$\frac{1}{4}$	K30	65126
	1.250	$\frac{1}{4}$	K4	66126
	1.250	$\frac{1}{4}$	K40	67126
	1.250	$\frac{1}{2}$	K4	66125
	1.250	$\frac{3}{32}$	K40	67125
	1.311	$\frac{3}{8}$	H	60128
	1.375	$\frac{3}{16}$	H	60134
	1.375	$\frac{1}{2}$	H	60135
	1.375	$\frac{1}{4}$	K3	64135
	1.375	$\frac{1}{4}$	K30	65135
	1.375	$\frac{1}{4}$	K4	66135
	1.375	$\frac{1}{4}$	K40	67135
	1.499	$\frac{3}{8}$	H	60137
	1.499	$\frac{1}{4}$	K3	64137
	1.499	$\frac{1}{4}$	K30	65137
	1.575	$\frac{3}{8}$	H	60139
	1.575	$\frac{1}{4}$	K3	64139
	1.575	$\frac{1}{4}$	K30	65139

†Sealing elements opposed.
‡With Offset.

VICTOPRENE OIL SEALS**PROGRESSIVE SIZE LISTING ARRANGED ACCORDING TO SHAFT DIAMETER**

SHAFT DIA.	* HOUSING BORE	WIDTH OF SEAL ±.015	STOCK TYPE	VICTOR NO.	SHAFT DIA.	* HOUSING BORE	WIDTH OF SEAL ±.015	STOCK TYPE	VICTOR NO.
$\frac{3}{4}$	1.624	$\frac{3}{16}$	H	60140	$\frac{7}{8}$	1.308	$\frac{1}{4}$	W	62046
(Cont.)	1.624	$\frac{1}{4}$	K3	64140	(Cont.)	1.308	$\frac{1}{4}$	K3	64191
	1.624	$\frac{1}{4}$	K30	65140		1.308	$\frac{1}{4}$	K30	65191
	1.624	$\frac{1}{4}$	K4	66140		1.371	$\frac{1}{32}$	H	60192
	1.624	$\frac{1}{4}$	K40	67140		1.375	$\frac{1}{4}$	W	62003
	1.752	$\frac{3}{16}$	H	60142		1.375	$\frac{1}{32}$	H	60193
	1.752	$\frac{1}{4}$	K3	64142		1.375	$\frac{1}{4}$	K3	64193
	1.752	$\frac{1}{4}$	K30	65142		1.375	$\frac{1}{4}$	K30	65193
	1.826	$\frac{3}{16}$	H	60144		1.375	$\frac{1}{4}$	K4	66193
	1.826	$\frac{1}{4}$	K3	64144		1.375	$\frac{1}{4}$	K40	67193
	1.826	$\frac{1}{4}$	K30	65144		1.378	$\frac{1}{4}$	K3	63184
						1.378	$\frac{1}{4}$	K30	63270
$\frac{25}{32}$	1.375	$\frac{1}{32}$	H	60149		1.437	$\frac{1}{4}$	K3	64195
(.781)	1.375	$\frac{1}{4}$	K3	63139		1.437	$\frac{1}{4}$	K30	65195
	1.375	$\frac{1}{4}$	K30	63268		1.499	$\frac{25}{64}$	H	60196
	1.499	$\frac{25}{64}$	H	60151		1.499	$\frac{1}{4}$	K3	64196
	1.624	$\frac{3}{16}$	H	60153		1.499	$\frac{1}{4}$	K30	65196
	1.752	$\frac{3}{16}$	H	60155		1.499	$\frac{1}{4}$	K4	66196
	1.828	$\frac{3}{16}$	H	60157		1.499	$\frac{1}{4}$	K40	67196
	1.983	$\frac{5}{16}$	K4	63564		1.561	$\frac{1}{4}$	W	63271
	1.983	$\frac{5}{16}$	K40	63563		1.562	$\frac{1}{4}$	K3	64197
						1.562	$\frac{1}{4}$	K30	65197
$\frac{1}{2}$	1.375	$\frac{1}{4}$	W	63020		1.575	$\frac{3}{16}$	H	60199
(.812)	1.375	$\frac{1}{32}$	H	60162		1.575	$\frac{1}{4}$	K3	64199
	1.375	$\frac{1}{4}$	K3	64162		1.575	$\frac{1}{4}$	K30	65199
	1.375	$\frac{1}{4}$	K30	65162		1.624	$\frac{3}{16}$	H	60200
	1.437	$\frac{1}{4}$	W	62002		1.624	$\frac{1}{4}$	K3	64200
	1.499	$\frac{25}{64}$	H	60166		1.624	$\frac{1}{4}$	K30	65200
	1.499	$\frac{1}{4}$	K3	64166		1.752	$\frac{3}{16}$	H	60202
	1.499	$\frac{1}{4}$	K30	65166		1.752	$\frac{1}{4}$	K3	64202
	1.624	$\frac{3}{16}$	H	60168		1.752	$\frac{1}{4}$	K30	65202
	1.624	$\frac{1}{4}$	K3	64168		1.782	$\frac{3}{16}$	K4	63495
	1.624	$\frac{1}{4}$	K30	65168		1.782	$\frac{3}{16}$	K40	63496
	1.752	$\frac{3}{16}$	H	60170		1.828	$\frac{3}{16}$	H	60204
	1.752	$\frac{1}{4}$	K3	64170		1.828	$\frac{1}{4}$	K3	64204
	1.752	$\frac{1}{4}$	K30	65170		1.828	$\frac{1}{4}$	K30	65204
	1.828	$\frac{3}{16}$	H	60172		1.849	$\frac{3}{16}$	H	60207
	1.828	$\frac{1}{4}$	K3	64172		1.874	$\frac{1}{32}$	H	60205
	1.828	$\frac{1}{4}$	K30	65172		1.874	$\frac{1}{4}$	K3	64205
						1.874	$\frac{1}{4}$	K30	65205
$\frac{27}{32}$	1.499	$\frac{25}{64}$	H	60177		2.050	$\frac{3}{8}$	H	60206
(.843)	1.624	$\frac{3}{16}$	H	60179					
	1.752	$\frac{3}{16}$	H	60181					
	1.828	$\frac{3}{16}$	H	60183					
	1.828	$\frac{3}{16}$	K4	63574					
	1.828	$\frac{3}{16}$	K40	63573					
$\frac{5}{8}$	1.372	$\frac{1}{4}$	K6	63192					
(.859)	1.372	$\frac{1}{4}$	K60	63269					
$\frac{1}{2}$	1.127	$\frac{1}{8}$	K31	63150					
(.875)	1.187	$\frac{3}{16}$	K31	63102					
	1.250	$\frac{3}{16}$	K5	63647					
	1.250	$\frac{3}{16}$	K50	63648					
	1.250	$\frac{1}{4}$	W	62020					
	1.253	$\frac{1}{32}$	K4	63447					
	1.253	$\frac{1}{32}$	K40	63466					
	1.254	$\frac{3}{16}$	K51	63637					



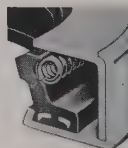
H



HF



HW



K



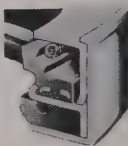
K15



KF



K3F



KW



W

BOLD FACE numbers are popular stock sizes.

LIGHT FACE numbers are available from production tools and limited stock.

*See NUMERICAL Section, pages 365 to 371 for actual seal O.D. dimension.

†Sealing elements opposed.

‡With Offset.

VICTOPRENE OIL SEALS

PROGRESSIVE SIZE LISTING ARRANGED ACCORDING TO SHAFT DIAMETER



K3

SHAFT DIA.	HOUSING BORE	WIDTH OF SEAL ±.015	STOCK TYPE	VICTOR NO.
$\frac{3}{32}$ (.969)	1.499	$\frac{1}{4}$	W	62027
	1.499	$\frac{25}{64}$	H	60233
	1.575	$\frac{3}{8}$	K3	63509
	1.575	$\frac{3}{8}$	K30	63597
	1.624	$\frac{7}{16}$	H	60235
	1.752	$\frac{7}{16}$	H	60237
	1.828	$\frac{7}{16}$	H	60239



K30

$\frac{9}{32}$ (.984)	1.499	$\frac{1}{4}$	K6	63621
	1.499	$\frac{1}{4}$	K4	63448
	1.499	$\frac{1}{4}$	K40	63467



K31

1 (1.000)	1.247	$\frac{3}{8}$	K31	63098
	1.250	$\frac{1}{8}$	K31	63165
	1.312	$\frac{1}{8}$	K31	63173
	1.437	$\frac{1}{4}$	W	62044
	1.437	$\frac{25}{64}$	H	60242
	1.437	$\frac{1}{4}$	K3	64242
	1.437	$\frac{1}{4}$	K30	65242
	1.437	$\frac{1}{4}$	K4	66242
	1.437	$\frac{1}{4}$	K40	67242



K4

1.499	1.499	$\frac{1}{4}$	W	62024
	1.499	$\frac{25}{64}$	H	60245
	1.499	$\frac{1}{4}$	K3	64245
	1.499	$\frac{1}{4}$	K30	65245
	1.499	$\frac{1}{4}$	K4	66245
	1.499	$\frac{1}{4}$	K40	67245



K40

1.510	1.510	$\frac{3}{8}$	W	63014
	1.511	$\frac{7}{32}$	W	62026
	1.561	$\frac{1}{4}$	K3	63272
	1.561	$\frac{1}{4}$	K30	63233
	1.562	$\frac{3}{8}$	K31	63457
	1.624	$\frac{3}{8}$	H	60247
	1.624	$\frac{1}{4}$	K3	64247
	1.624	$\frac{1}{4}$	K30	65247
	1.624	$\frac{1}{4}$	K4	66247
	1.624	$\frac{1}{4}$	K40	67247



K5

1.752	1.752	$\frac{3}{8}$	H	60250
	1.752	$\frac{1}{4}$	K3	64250
	1.752	$\frac{1}{4}$	K30	65250
	1.828	$\frac{3}{8}$	H	60252
	1.828	$\frac{1}{4}$	K3	64252
	1.828	$\frac{1}{4}$	K30	65252
	1.828	$\frac{3}{8}$	K4	63494
	1.828	$\frac{3}{8}$	K40	63493



K50

1.874	1.874	$\frac{3}{8}$	H	60254
	1.874	$\frac{1}{4}$	K3	64254
	1.874	$\frac{1}{4}$	K30	65254
	1.983	$\frac{1}{2}$	H	60256
	2.000	$\frac{3}{8}$	H	60260
	2.000	$\frac{1}{2}$	H	60258
	2.000	$\frac{1}{4}$	K3	64258
	2.000	$\frac{1}{4}$	K30	65258
	2.062	$\frac{3}{8}$	H	60261
	2.062	$\frac{1}{4}$	K3	64261
	2.062	$\frac{1}{4}$	K30	65261
	2.441	$\frac{3}{8}$	K4	63519
	2.441	$\frac{3}{8}$	K40	63599



K6



K60

SHAFT DIA.	HOUSING BORE	WIDTH OF SEAL ±.015	STOCK TYPE	VICTOR NO.
$1\frac{1}{32}$ (1.031)	1.280	$\frac{3}{8}$	K31	63099
	1.499	$\frac{25}{64}$	H	60265
	1.624	$\frac{7}{16}$	H	60267
	1.624	$\frac{1}{4}$	K3	64267
	1.624	$\frac{1}{4}$	K30	65267
	1.686	$\frac{9}{32}$	H	60268
	1.752	$\frac{7}{16}$	H	60269
	1.752	$\frac{1}{4}$	K3	64269
	1.752	$\frac{1}{4}$	K30	65269
	1.828	$\frac{1}{4}$	K3	64272
	1.828	$\frac{1}{4}$	K30	65272
	1.874	$\frac{7}{16}$	H	60273
$1\frac{1}{16}$ (1.062)	1.874	$\frac{1}{4}$	K3	64273
	1.874	$\frac{1}{4}$	K30	65273
	1.983	$\frac{1}{2}$	H	60275
	2.000	$\frac{7}{16}$	H	60277
	2.000	$\frac{1}{4}$	K3	64277
	2.000	$\frac{1}{4}$	K30	65277
	1.499	$\frac{25}{64}$	H	60282
	1.624	$\frac{7}{16}$	H	60284
	1.624	$\frac{1}{4}$	K3	64284
	1.624	$\frac{1}{4}$	K30	65284
	1.686	$\frac{9}{32}$	H	60285
	1.686	$\frac{1}{4}$	K3	64285
$1\frac{1}{8}$ (1.125)	1.686	$\frac{1}{4}$	K30	65285
	1.752	$\frac{7}{16}$	H	60286
	1.752	$\frac{1}{4}$	K3	64286
	1.752	$\frac{1}{4}$	K30	65286
	1.828	$\frac{7}{16}$	H	60288
	1.828	$\frac{1}{4}$	K3	64288
	1.828	$\frac{1}{4}$	K30	65288
	1.874	$\frac{7}{16}$	H	60290
	1.874	$\frac{1}{4}$	K3	64290
	1.874	$\frac{1}{4}$	K30	65290
	1.983	$\frac{1}{2}$	H	60294
	2.000	$\frac{7}{16}$	H	60296
$1\frac{1}{4}$ (1.125)	2.000	$\frac{1}{2}$	H	60295
	2.000	$\frac{1}{4}$	K3	64295
	2.000	$\frac{1}{4}$	K30	65295
	1.828	$\frac{3}{8}$	H	60301
	1.874	$\frac{7}{16}$	H	60305
	1.983	$\frac{1}{2}$	H	60307
	2.000	$\frac{3}{8}$	H	60309
	1.375	$\frac{1}{8}$	K31	63166
	1.500	$\frac{1}{4}$	K31	65312
	1.561	$\frac{3}{8}$	H	60314
	1.561	$\frac{3}{8}$	K31	63167
	1.561	$\frac{1}{4}$	K3	64314
$1\frac{3}{8}$ (1.125)	1.561	$\frac{1}{4}$	K30	65314
	1.563	$\frac{1}{4}$	K31	63142
	1.564	$\frac{1}{4}$	W	62021
	1.624	$\frac{1}{4}$	K3	64315
	1.624	$\frac{1}{4}$	K30	65315
	1.828	$\frac{7}{16}$	H	60318
	1.828	$\frac{1}{4}$	K3	64318
	1.828	$\frac{1}{4}$	K30	65318

BOLD FACE numbers are popular stock sizes.

LIGHT FACE numbers are available from production tools and limited stock.

*See NUMERICAL Section, pages 365 to 371 for actual seal O.D. dimension.

†Sealing elements opposed.

‡With Offset.

VICTOPRENE OIL SEALS**PROGRESSIVE SIZE LISTING ARRANGED ACCORDING TO SHAFT DIAMETER**

SHAFT DIA.	* HOUSING BORE	WIDTH OF SEAL ±.015	STOCK TYPE	VICTOR NO.	SHAFT DIA.	* HOUSING BORE	WIDTH OF SEAL ±.015	STOCK TYPE	VICTOR NO.
1 $\frac{1}{8}$	1.828	$\frac{1}{4}$	K4	66318	1 $\frac{3}{8}$	2.046	$\frac{1}{4}$	K4	66350
(Cont.)	1.828	$\frac{1}{4}$	K40	67318	(Cont.)	2.046	$\frac{1}{4}$	K40	67350
	1.833	$\frac{1}{4}$	K4	63217		2.047	$\frac{1}{4}$	W	62028
	1.833	$\frac{1}{4}$	K40	63273		2.047	$\frac{3}{16}$	K	60351
	1.851	$\frac{3}{16}$	H	60319		2.062	$\frac{3}{16}$	H	63274
	1.874	$\frac{3}{16}$	H	60320		2.062	$\frac{3}{16}$	K	60353
	1.874	$\frac{3}{16}$	K6	63651		2.062	$\frac{1}{4}$	K3	64353
	1.874	$\frac{3}{16}$	K60	63652		2.062	$\frac{1}{4}$	K30	65353
	1.874	$\frac{1}{4}$	K3	64320		2.106	$\frac{15}{32}$	K	60355
	1.874	$\frac{1}{4}$	K30	65320		2.106	$\frac{3}{8}$	K4	63204
	1.875	$\frac{5}{8}$	HF	63066		2.106	$\frac{3}{8}$	K40	63275
	1.937	$\frac{3}{16}$	K31	63168		2.125	$\frac{3}{16}$	K	60357
	1.983	$\frac{1}{2}$	H	60322		2.437	$\frac{15}{32}$	K	60359
	2.000	$\frac{3}{16}$	H	60324		2.834	$\frac{1}{4}$	K3	63234
	2.000	$\frac{1}{4}$	K3	64324		2.834	$\frac{1}{4}$	K30	63276
	2.000	$\frac{1}{4}$	K30	65324					
	2.000	$\frac{1}{2}$	K4	63580					
	2.000	$\frac{1}{2}$	K40	63581					
	2.047	$\frac{3}{16}$	H	60325					
	2.062	$\frac{1}{4}$	W	62071	1 $\frac{1}{2}$	1.983	$\frac{1}{2}$	K	60371
	2.062	$\frac{3}{16}$	H	60326	(1.219)	2.000	$\frac{3}{16}$	K	60373
	2.062	$\frac{1}{4}$	K3	64326		2.062	$\frac{3}{8}$	K	60376
	2.062	$\frac{1}{4}$	K30	65326		2.062	$\frac{3}{16}$	K	60375
	2.441	$\frac{5}{16}$	K4	63520		2.062	$\frac{1}{4}$	K3	64374
	2.441	$\frac{3}{16}$	K40	63600		2.062	$\frac{1}{4}$	K30	65374
						2.106	$\frac{15}{32}$	K	60377
						2.125	$\frac{3}{16}$	K	60379
(1.135)	1.828	$\frac{29}{64}$	H	60329					
1 $\frac{1}{32}$	1.686	$\frac{1}{4}$	W	63021					
(1.156)	1.983	$\frac{1}{2}$	K	60331	1 $\frac{1}{4}$	1.499	$\frac{1}{8}$	K31	63169
	2.000	$\frac{5}{16}$	K6	63622	(1.250)	1.686	$\frac{3}{8}$	H	60382
	2.000	$\frac{3}{16}$	K	60333		1.686	$\frac{3}{16}$	K5	63638
	2.062	$\frac{3}{16}$	K	60335		1.686	$\frac{3}{16}$	K50	63639
	2.062	$\frac{1}{4}$	K4	63449		1.686	$\frac{3}{16}$	K31	63170
	2.062	$\frac{1}{4}$	K40	63468		1.686	$\frac{1}{4}$	K3	64382
	2.106	$\frac{15}{32}$	K	60337		1.686	$\frac{1}{4}$	K30	65382
	2.187	$\frac{1}{4}$	K3	63229		1.687	$\frac{3}{16}$	K4	63544
	2.187	$\frac{1}{4}$	K30	63207		1.687	$\frac{3}{16}$	K40	63545
						1.687	$\frac{1}{4}$	K4	63189
						1.687	$\frac{1}{4}$	K40	63277
1 $\frac{1}{64}$	1.828	$\frac{3}{8}$	K	60340		1.748	$\frac{3}{16}$	K6	63595
(1.172)	2.000	$\frac{1}{4}$	W	62005		1.750	$\frac{1}{4}$	K5	63601
	2.031	$\frac{3}{8}$	K5	63657		1.750	$\frac{1}{4}$	K50	63602
	2.031	$\frac{3}{8}$	K50	63658		1.750	$\frac{1}{4}$	K6	63480
						1.750	$\frac{1}{4}$	K60	63479
1 $\frac{1}{8}$	1.688	$\frac{3}{8}$	K3	63588		1.752	$\frac{1}{4}$	W	62055
(1.187)	1.688	$\frac{3}{8}$	K30	63589		1.875	$\frac{1}{4}$	K3	64385
	1.874	$\frac{3}{8}$	H	60346		1.875	$\frac{1}{4}$	K30	65385
	1.874	$\frac{1}{4}$	K3	64346		1.971	$\frac{3}{16}$	K40	63187
	1.874	$\frac{1}{4}$	K30	65346		1.983	$\frac{1}{2}$	K	60386
	1.937	$\frac{1}{4}$	K3	64348		2.000	$\frac{3}{8}$	W	62035
	1.937	$\frac{1}{4}$	K30	65348		2.000	$\frac{3}{16}$	H	63278
	1.983	$\frac{1}{2}$	K	60347		2.000	$\frac{3}{16}$	K	60388
	1.983	$\frac{1}{4}$	K3	64347		2.049	$\frac{15}{64}$	K6	63211
	1.983	$\frac{1}{4}$	K30	65347		2.049	$\frac{15}{64}$	K60	63279
	1.996	$\frac{1}{4}$	W	62053		2.062	$\frac{1}{4}$	W	62069
	2.000	$\frac{3}{16}$	K	60349		2.062	$\frac{3}{16}$	K	60392
	2.000	$\frac{1}{4}$	K3	64349		2.062	$\frac{1}{2}$	K	60390
	2.000	$\frac{1}{4}$	K30	65349		2.106	$\frac{15}{32}$	K	60394

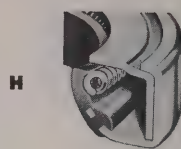
BOLD FACE numbers are popular stock sizes.

LIGHT FACE numbers are available from production tools and limited stock.

*See NUMERICAL Section, pages 365 to 371 for actual seal O.D. dimension.

†Sealing elements opposed.

‡With Offset.



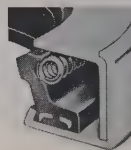
H



HF



HW



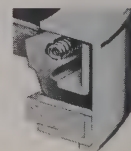
K



K15



KF



K3F



KW



W

PROGRESSIVE SIZE LISTING ARRANGED ACCORDING TO SHAFT DIAMETER

†With Offset.

PROGRESSIVE SIZE LISTING ARRANGED ACCORDING TO SHAFT DIAMETER



†With Offset.

W

VICTOPRENE OIL SEALS

PROGRESSIVE SIZE LISTING ARRANGED ACCORDING TO SHAFT DIAMETER

	SHAFT DIA.	* HOUSING BORE	WIDTH OF SEAL ±.015	STOCK TYPE	VICTOR NO.		SHAFT DIA.	* HOUSING BORE	WIDTH OF SEAL ±.015	STOCK TYPE	VICTOR NO.
	K3	1 ³⁷ / ₆₄ (1.578)	2.000 2.406	1/4 1/2	W K	62023 60546	1 ¹¹ / ₁₆ (Cont.)	2.623 2.623 2.623 2.686 2.715 2.750 2.875 3.061	1/2 3/4 1/4 1/4 1/2 1/2 1 ¹⁵ / ₃₂ 1/2	K K3F K3 K30 K K K K	60605 63313 64605 65605 60607 60608 60609 60615 60617
	K30	1 ¹¹ / ₃₂ (1.594)	2.437 2.502 2.623 2.758	1 ¹⁵ / ₃₂ 1/2 1/2 1/2	K K K K	60549 60551 60553 60555					
	K31	1 ⁵ / ₁₆ (1.625)	2.125 2.125 2.328 2.328 2.374 2.374 2.374 2.374 2.437 2.441 2.441 2.441 2.502 2.502 2.502 2.623 2.623 2.623 2.623 2.686 2.750 2.750 2.750 2.750 2.815 2.875 2.984 3.000 3.061 3.251	1/4 1/4 3/16 3/16 3/8 3/8 3/8 1/4 1/4 1 ¹⁵ / ₃₂ 1 ¹⁵ / ₃₂ 3/4 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/4 1/4 1/4 1/4 1/2 1 ¹⁵ / ₃₂ 1/4 1/2 1 ¹⁵ / ₃₂ 1/2	K3 K30 K4 K40 K K6 K60 K3 K30 K K HF K3F K K4 K40 W K K4 K40 K W K K H K W K K K	64560 65560 63310 63309 60562 63470 63471 64562 65562 60564 63475 63053 63435 60568 63200 63311 62043 60570 63216 63312 60572 62015 60574 64574 65574 60578 60580 62052 60581 60583 60584	1 ¹⁵ / ₃₂ (1.719)	2.437 2.623 2.686 2.714 2.750 2.875	1/2 1/2 1/2 3/64 1/2 1 ¹⁵ / ₃₂	K K K W K K	60620 60622 60624 63138 60626 60632
	K4						1 ¹ / ₄ (1.734)	2.336 2.449 3.062	1/4 1/4 3/4	W K31 K3F†	63316 63317 63318
	K40						1 ³ / ₄ (1.750)	2.250 2.250 2.250 2.250 2.336 2.374 2.374 2.374 2.374 2.437 2.437 2.441 2.449 2.449 2.502 2.502 2.502 2.502 2.561 2.623 2.623 2.623 2.623 2.686 2.686 2.715 2.715 2.749	1/4 1 ¹⁵ / ₃₂ 1/4 1/4 1/4 1/4 3/16 3/16 1/4 1/4 1/4 1/4 1/4 1/4 1/4 1/2 1 ¹⁵ / ₁₆ 1/4 1/2 1/4 3/8 3/8 1/2 3/8 3/8	W H K3 K30 W W K5 K50 K3 K30 W K5 K5 W K4 K40 H K5 K HW K3 K30 K4 K40 K W K K4 K K4 K40 HH†	62045 60635 64635 65635 63476 62079 63653 63654 64636 65636 62010 63319 63320 63321 63323 63322 60638 63576 60640 63032 64638 65638 63225 63324 60642 62082 60641 60643 63553 63554 60645 60644 63325 63326 63049
	K5										
	K50	1 ¹³ / ₃₂ (1.656)	2.502 2.623 2.686 2.750	1/2 1/2 1/2 1/2	K K K K	60585 60587 60589 60591					
	K6	1 ¹¹ / ₁₆ (1.687)	2.279 2.279 2.502 2.502 2.502 2.502 2.502 2.502 2.502 2.502	1/4 1/4 1/2 3/4 3/4 3/4 3/4 3/4 3/8 3/8	K3 K30 K K3F K6 K60 K3 K30 K4 K40	64601 65601 60603 63314 63546 63547 63100 63315 63436 63437					

BOLD FACE numbers are popular stock sizes.

LIGHT FACE numbers are available from production tools and limited stock.

*See NUMERICAL Section, pages 365 to 371 for actual seal O.D. dimension.

†Sealing elements opposed.

‡With Offset.

NEED HELP ON BEARINGS—CALL US

PROGRESSIVE SIZE LISTING ARRANGED ACCORDING TO SHAFT DIAMETER

SHAFT DIA.	* HOUSING BORE	WIDTH OF SEAL ±.015	STOCK TYPE	VICTOR NO.	SHAFT DIA.	* HOUSING BORE	WIDTH OF SEAL ±.015	STOCK TYPE	VICTOR NO.
1¼	2.750	½	H	63209	1⅞	2.397	¼	K3	63342
(Cont.)	2.750	½	K	60646	(1.875)	2.397	¼	K30	63343
	2.750	⅝ ₆₄	K3W†	63327		2.492	⅜	K3	63230
	2.750	¼	K3	64646		2.492	⅜	K30	63340
	2.750	¼	K30	65646		2.623	½	K	60725
	2.750	⅜ ₁₆	K4	63201		2.623	¼	KF	63113
	2.750	⅜ ₁₆	K40	63328		2.686	⅜	H	60727
	2.751	⅝ ₆₄	WH	63061		2.686	½	K	60728
	2.758	½	K	60648		2.715	1⅜ ₃₂	H	60729
	2.809	½	K4	63329		2.750	¼	W	62078
	2.809	½	K40	63330		2.750	½	K	60730
	2.868	¼	K3	63331		2.750	¼	K3	63129
	2.868	¼	K30	63332		2.750	¼	K30	63175
	2.875	⅜	K	63333		2.758	½	K	60732
	2.875	1⅜ ₃₂	K	60655		2.758	2⅜ ₃₂	KF	63642
	2.875	½	K	60656		2.758	2⅜ ₃₂	KW	63034
	2.875	2⅜ ₃₂	HW†	63047		2.766	2⅜ ₃₂	HF	63067
	2.980	¾	KF‡	63079		2.780	¼	W	62014
	3.061	½	K	60660		2.782	⅜	HW‡	63071
	3.170	¾	K3F	63080		2.783	1⅜ ₃₂	H	60734
	3.189	1⅜ ₃₂	K	60663		2.869	½	K	60735
						2.869	¼	K3	64735
1⅝ ₆₄	2.412	1⅜ ₃₂	K	60668		2.869	¼	K30	65735
(1.766)						2.875	1⅜ ₃₂	K	60736
						2.890	½	K	60738
						2.968	⅜ ₃₂	W	62009
1⅞ ₃₂	2.252	⅜	K4	63556		2.996	¼	W	63341
(1.781)	2.252	⅜	K40	63555		2.996	½	K	60740
	2.623	½	K	60671		3.000	½	K	60742
	2.686	½	K	60673		3.061	½	K	60744
	2.750	½	K	60675		3.105	1⅜ ₁₆	HF‡	63081
	2.875	1⅜ ₃₂	K	60681		3.125	1⅜ ₃₂	H	60745
	3.189	1⅜ ₃₂	K	60683		3.189	1⅜ ₃₂	K	60746
						3.251	½	K	60747
1⅝ ₆₄	2.726	1⅜ ₃₂	W	63337		3.371	1⅜ ₃₂	K	60749
(1.796)						3.496	1⅜ ₁₆	KF‡	63070
						3.499	1⅜ ₁₆	KF‡	63082
1⅜ ₁₆	2.561	⅝ ₁₆	K51	63582					
(1.812)	2.623	½	K	60688					
	2.686	½	K	60690					
	2.750	½	K	60692					
	2.842	⅝ ₁₆	K31	63335					
	2.875	1⅜ ₃₂	K	60698					
	3.001	½	K5	63538					
	3.189	1⅜ ₃₂	K	60700					
1⅝ ₆₄	2.750	¼	W	63477					
(1.828)	2.750	⅜ ₆₄	K4	63336		1⅜ ₁₆	⅜ ₃₂	W	63344
	2.750	⅜ ₆₄	K40	63202	(1.937)	2.502	⅜	K4	63345
	2.874	⅜	W	63338		2.502	⅜	K40	63346
						2.502	⅜	K6	63649
						2.504	⅜	K60	63650
						2.576	¼	K51	63607
1⅞ ₃₂	2.623	½	K	60708		2.686	½	K	60766
(1.844)	2.750	½	K	60712		2.686	⅜ ₆₄	K5	63347
	2.875	1⅜ ₃₂	K	60718		2.686	⅜ ₆₄	K50	63348
	3.189	1⅜ ₃₂	K	60720		2.750	⅜	W	62066
						2.825	½	K5	63552
(1.870)	2.997	⅜	W	63339					

w



NEED HELP ON BEARINGS—CALL US

VICTOPRENE OIL SEALS

PROGRESSIVE SIZE LISTING ARRANGED ACCORDING TO SHAFT DIAMETER

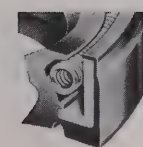

K3

SHAFT DIA.	* HOUSING BORE	WIDTH OF SEAL ±.015	STOCK TYPE	VICTOR NO.
1 $\frac{1}{8}$	2.875	$\frac{1}{32}$	H	63349
(Cont.)	2.875	$\frac{1}{32}$	K	60767
	2.875	$\frac{1}{16}$	K4	63612
	2.875	$\frac{1}{16}$	K40	63252
	3.000	$\frac{1}{2}$	K	60771
	3.000	$\frac{45}{64}$	HW	63035
	3.000	$\frac{3}{4}$	HF	63054
	3.000	$\frac{3}{4}$	HW†	63048
	3.061	$\frac{1}{2}$	K	60773
	3.125	$\frac{1}{2}$	K	60775
	3.189	$\frac{1}{32}$	K	60777
	3.189	$\frac{1}{4}$	K31	63350
	3.623	$\frac{1}{2}$	K	60779

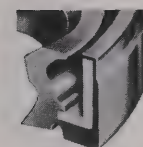

K30

K31

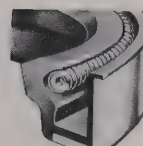
SHAFT DIA.	* HOUSING BORE	WIDTH OF SEAL ±.015	STOCK TYPE	VICTOR NO.
1 $\frac{3}{32}$	2.960	$\frac{1}{4}$	W	62016
(1.968)				


K4

SHAFT DIA.	* HOUSING BORE	WIDTH OF SEAL ±.015	STOCK TYPE	VICTOR NO.
2	2.502	$\frac{1}{4}$	K3	64780
(2.000)	2.502	$\frac{1}{4}$	K30	65780
	2.715	$\frac{1}{16}$	K	60781
	2.717	$\frac{1}{4}$	W	62029
	2.746	$\frac{3}{8}$	K5	63578
	2.746	$\frac{3}{8}$	K50	63579
	2.750	$\frac{1}{2}$	H	63351
	2.750	$\frac{1}{2}$	K	60782
	2.756	$\frac{1}{2}$	K	60783
	2.766	$\frac{23}{32}$	HW	63072
	2.875	$\frac{1}{32}$	H	60786


K40

SHAFT DIA.	* HOUSING BORE	WIDTH OF SEAL ±.015	STOCK TYPE	VICTOR NO.
	2.875	$\frac{1}{2}$	K	60787
	2.882	$\frac{1}{16}$	HW†	63073
	2.995	$\frac{1}{2}$	K4	63247
	2.995	$\frac{1}{2}$	K40	63352
	2.996	$\frac{1}{4}$	W	62067
	2.996	$\frac{1}{2}$	K	60790
	2.996	$\frac{23}{32}$	HW	63036
	3.000	$\frac{1}{2}$	K	60794
	3.000	$\frac{23}{32}$	HW†	63057
	3.000	$\frac{1}{4}$	K3	64794
	3.000	$\frac{1}{4}$	K30	65794
	3.000	$\frac{3}{8}$	K3	63500
	3.000	$\frac{3}{8}$	K30	63459
	3.349	$\frac{1}{16}$	K3	63502
	3.349	$\frac{3}{16}$	K30	63501


K5

SHAFT DIA.	* HOUSING BORE	WIDTH OF SEAL ±.015	STOCK TYPE	VICTOR NO.
	3.061	$\frac{1}{2}$	K	60796
	3.105	$\frac{1}{32}$	K61	63353
	3.125	$\frac{1}{2}$	K	60798
	3.189	$\frac{1}{32}$	K	60800
	3.371	$\frac{1}{32}$	K	60802


K50

K6

SHAFT DIA.	* HOUSING BORE	WIDTH OF SEAL ±.015	STOCK TYPE	VICTOR NO.
2 $\frac{1}{16}$	2.844	$\frac{3}{16}$	K	60808
(2.062)	3.000	$\frac{1}{2}$	K	60810
	3.061	$\frac{1}{2}$	K	60812
	3.125	$\frac{1}{2}$	K	60814
	3.189	$\frac{29}{64}$	K	60817
	3.189	$\frac{1}{32}$	K	60816
	3.251	$\frac{1}{2}$	K	60819


K60

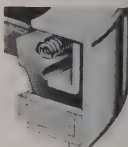
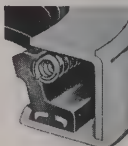
BOLD FACE numbers are popular stock sizes.
LIGHT FACE numbers are available from production tools and limited stock.
*See NUMERICAL Section, pages 365 to 371 for actual seal O.D. dimension.

SHAFT DIA.	* HOUSING BORE	WIDTH OF SEAL ±.015	STOCK TYPE	VICTOR NO.
2 $\frac{3}{32}$	2.835	$\frac{9}{32}$	W	62036
(2.093)	3.148	$\frac{9}{32}$	W	62008
2 $\frac{1}{8}$	2.875	$\frac{1}{4}$	W	62054
(2.125)	2.875	$\frac{1}{2}$	K	60827
	2.875	$\frac{21}{32}$	HW	63037
	2.878	$\frac{3}{8}$	H	60829
	2.879	$\frac{1}{16}$	K3	63354
	2.879	$\frac{1}{16}$	K30	63355
	2.996	$\frac{1}{2}$	K	60833
	2.999	$\frac{1}{2}$	K	60834
	3.000	$\frac{1}{2}$	K	60835
	3.000	$\frac{1}{2}$	K5	63429
	3.000	$\frac{1}{2}$	K50	63430
	3.000	$\frac{3}{4}$	HW††	63074
	3.000	$\frac{3}{4}$	HF†	63206
	3.062	$\frac{1}{2}$	K	60837
	3.062	$\frac{3}{4}$	K3F	63186
	3.125	$\frac{1}{2}$	K	60839
	3.189	$\frac{1}{32}$	K	60841
	3.189	$\frac{1}{32}$	K4	63203
	3.189	$\frac{1}{32}$	K40	63357
	3.251	$\frac{1}{2}$	K	60843
	3.350	$\frac{1}{32}$	K	60845
	3.350	$\frac{1}{4}$	K31	63358
	3.496	$\frac{7}{8}$	HF†	63083
2 $\frac{3}{16}$	2.835	$\frac{9}{32}$	W	62011
(2.187)	3.061	$\frac{1}{32}$	K	60853
	3.189	$\frac{1}{32}$	K	60856
	3.189	$\frac{7}{64}$	K3F†	63084
	3.251	$\frac{1}{2}$	K	60858
	3.350	$\frac{1}{2}$	K	60861
2 $\frac{1}{2}$	3.070	$\frac{1}{32}$	H	60862
(2.218)				
2 $\frac{1}{4}$	2.996	$\frac{1}{2}$	K	60863
(2.250)	2.997	$\frac{3}{4}$	K3F	63055
	3.000	$\frac{1}{2}$	K	60864
	3.061	$\frac{1}{32}$	K	60866
	3.124	$\frac{3}{8}$	K6	63625
	3.125	$\frac{1}{32}$	K4	63146
	3.125	$\frac{1}{32}$	K40	63359
	3.189	$\frac{1}{16}$	K	60867
	3.189	$\frac{45}{64}$	K3F	63360
	3.250	$\frac{3}{4}$	HF	63085
	3.251	$\frac{1}{2}$	H	63361
	3.251	$\frac{1}{2}$	K	60868
	3.251	$\frac{1}{16}$	HW†	63075
	3.251	$\frac{1}{16}$	HW††	63076
	3.251	$\frac{1}{16}$	WH†	63088
	3.251	$\frac{3}{16}$	K4	63584
	3.251	$\frac{3}{16}$	K40	63583

†Sealing elements opposed.
††With Offset.

VICTOPRENE OIL SEALS**PROGRESSIVE SIZE LISTING ARRANGED ACCORDING TO SHAFT DIAMETER**

SHAFT DIA.	* HOUSING BORE	WIDTH OF SEAL ±.015	STOCK TYPE	VICTOR NO.	SHAFT DIA.	* HOUSING BORE	WIDTH OF SEAL ±.015	STOCK TYPE	VICTOR NO.
2¼	3.350	1½/32	H	63362	2½	3.543	1½/32	K4	63226
(Cont.)	3.350	1½/32	K	60870	(Cont.)	3.543	1½/32	K40	63369
	3.350	1½/32	K6	63575		3.623	1½/32	K	60922
	3.374	½	H	60872		3.750	¾	K3	63503
	3.443	¼	W	62062		3.750	¾	K30	63460
	3.481	½	K	60873					
	3.500	½	K	60875	2⅞	3.500	½	K	60925
	3.623	1½/32	K	60877	(2.562)	3.623	1½/32	K	60927
	3.623	45/64	HW	63038		3.876	1½/32	K	60926
	3.756	27/32	HF†	63086					
	3.757	11/16	KW	63039	213/32	3.481	½	K	60928
	3.876	1½/32	K	60879	(2.594)				
	4.008	¾	HF†	63363					
2⅝	2.750	¾	W	62018	(2.607)	3.349	¾	K5	63197
(2.281)						3.349	¾	K50	63370
2⅞	3.065	¾	W	63193	2⅝	3.350	½	K	60930
(2.312)	3.251	1½/32	H	63364	(2.625)	3.439	½	K	60933
	3.251	1½/32	K	60885		3.484	¼	W	62030
	3.251	½	K	60883		3.500	½	K	60929
	3.350	1½/32	K	60887		3.543	½	K	60931
	3.500	½	K	60889		3.623	1½/32	K	60932
						3.623	45/64	KF	63371
2⅞	3.124	¾	K5	63413		3.751	½	H	63372
(2.375)	3.124	¾	K50	63414		3.751	½	K	60934
	3.251	½	K	60893		3.751	½	K4	63605
	3.350	1½/32	K	60894		3.751	½	K40	63606
	3.350	45/64	HW	63040		3.876	1½/32	K	60936
	3.350	45/64	KF	63107		4.437	¾	H	60939
	3.481	½	K	60896					
	3.481	45/64	HW	63058	211/16	3.751	½	K	60943
	3.484	½	K	60895	(2.687)	3.876	1½/32	K	60945
	3.500	¾	K	60897					
	3.500	½	K	60898	2¾	3.500	½	K	60949
	3.623	45/64	KW	63114	(2.750)	3.538	¾	K	60950
	3.623	45/64	KW†	63365		3.623	¾	K	60952
						3.750	¾	K	60953
2⅞	3.350	½	K	60902		3.751	¼	W	62050
(2.437)	3.481	½	K	60903		3.751	½	K	60954
	3.500	½	K	60905		3.751	27/32	KW	63112
	3.543	1½/32	K	60907		3.751	¾	KF	63110
						3.751	1½/32	K4	63557
2½	3.251	½	K	60911		3.751	1½/32	K40	63558
(2.500)	3.350	½	H	63366		3.876	1½/32	K	60956
	3.350	½	K	60913		3.876	27/32	HW	63043
	3.371	¾	K	60914		4.249	¾	KW	63109
	3.371	¾	K5	63577	25/64	4.000	45/64	HW	63000
	3.371	½	K6	63571	(2.797)				
	3.371	½	K60	63572					
	3.500	½	H	63367	213/16	3.751	½	K	60961
	3.500	½	K	60918	(2.812)	3.876	¾	W	62068
	3.500	11/16	HW	63041		3.876	1½/32	K	60963
	3.500	27/64	K3	63227					
	3.500	27/64	K30	63368	27/32	3.939	½	H	60964
	3.543	1½/32	K	60920	(2.844)	4.002	¾	K	60965
	3.543	¾	HW	63042					



BOLD FACE numbers are popular stock sizes.

LIGHT FACE numbers are available from production tools and limited stock.

*See NUMERICAL Section, pages 365 to 371 for actual seal O.D. dimension.

†Sealing elements opposed.

‡With Offset.

VICTOPRENE OIL SEALS

PROGRESSIVE SIZE LISTING ARRANGED ACCORDING TO SHAFT DIAMETER

	SHAFT DIA.	* HOUSING BORE	WIDTH OF SEAL ±.015	STOCK TYPE	VICTOR NO.		SHAFT DIA.	* HOUSING BORE	WIDTH OF SEAL ±.015	STOCK TYPE	VICTOR NO.
	K3	2 $\frac{7}{8}$ (2.875)	3.751	$\frac{1}{2}$	K	60968	3 $\frac{1}{8}$ (3.187)	4.249	$\frac{3}{16}$	H	63377
			3.751	$\frac{3}{4}$	HW	63044		4.249	$\frac{3}{16}$	K	61024
			3.876	$\frac{15}{32}$	K	60970		4.376	$\frac{3}{16}$	K	61026
			3.876	$\frac{15}{32}$	K4	63425		4.499	$\frac{1}{2}$	K	61027
			3.876	$\frac{15}{32}$	K40	63426		4.999	$\frac{15}{32}$	K	61028
	K30	4.003	$\frac{1}{4}$	W	62070		3 $\frac{1}{4}$ (3.250)	4.249	$\frac{1}{2}$	K6	63378
		4.003	$\frac{15}{32}$	K	60972			4.249	$\frac{1}{2}$	K60	63379
		4.125	$\frac{3}{16}$	K	60974			4.249	$\frac{3}{16}$	K	61033
		2 $\frac{7}{8}$ (2.891)	4.003	$\frac{15}{32}$	K	60975		4.376	$\frac{3}{16}$	K	61036
								4.499	$\frac{3}{16}$	H	61038
								4.500	$\frac{45}{64}$	HW†	63077
	K31	2 $\frac{1}{8}$ (2.937)	3.875	$\frac{1}{16}$	HW	63045		4.501	$\frac{5}{8}$	K	61040
			4.003	$\frac{15}{32}$	K	60979		4.626	$\frac{1}{2}$	K	61041
			4.003	$\frac{1}{16}$	HW	63046		4.999	$\frac{15}{32}$	K	61042
			4.125	$\frac{3}{16}$	K	60981					
		2 $\frac{9}{16}$ (2.953)	4.167	$\frac{1}{2}$	K4	63205	3 $\frac{3}{8}$ (3.312)	4.126	$\frac{15}{32}$	K4	63559
			4.167	$\frac{1}{2}$	K40	63373		4.126	$\frac{15}{32}$	K40	63560
								4.249	$\frac{3}{16}$	K	61047
								4.376	$\frac{3}{16}$	K	61049
	K4	3 (3.000)	3.880	$\frac{15}{32}$	K4	63374		4.499	$\frac{15}{32}$	H	63415
			3.880	$\frac{15}{32}$	K40	63375		4.499	$\frac{15}{32}$	K	61051
			3.999	$\frac{3}{16}$	K	60987		4.501	$\frac{3}{16}$	K	61052
			3.999	$\frac{15}{32}$	K	60986		4.999	$\frac{15}{32}$	H	63380
			4.003	$\frac{1}{4}$	K5	63620		4.999	$\frac{15}{32}$	K	61054
			4.003	$\frac{15}{32}$	K	60988					
			4.003	$\frac{3}{4}$	HF	63013	3 $\frac{3}{8}$ (3.375)	3.948	$\frac{3}{8}$	K4	63481
			4.003	$\frac{3}{16}$	K4	63420		3.948	$\frac{3}{8}$	K40	63505
	K40		4.003	$\frac{3}{16}$	K40	63432		4.125	$\frac{1}{4}$	K31	63231
			4.125	$\frac{3}{16}$	K	60991		4.376	$\frac{3}{16}$	K	61059
			4.249	$\frac{3}{16}$	K	60993		4.501	$\frac{15}{32}$	K	61062
			4.249	$\frac{45}{64}$	KW	63108		4.501	$\frac{3}{16}$	H	63381
			4.376	$\frac{3}{16}$	K	60995		4.501	$\frac{3}{16}$	K	61061
			4.499	$\frac{3}{16}$	K	60996		4.626	$\frac{3}{16}$	K	61063
			4.501	$\frac{1}{2}$	K3	63504		4.688	$\frac{1}{2}$	K	61064
			4.501	$\frac{1}{2}$	K30	63461		4.999	$\frac{15}{32}$	K	61065
			4.999	$\frac{15}{32}$	K	60997					
	K5	(3.040)	3.937	$\frac{1}{4}$	K3	63140	3 $\frac{3}{8}$ (3.437)	4.250	$\frac{15}{32}$	K4	63561
			3.937	$\frac{1}{4}$	K30	63376		4.250	$\frac{15}{32}$	K40	63562
								4.501	$\frac{3}{16}$	K	61070
								4.626	$\frac{3}{16}$	K	61072
								4.756	$\frac{3}{16}$	K	63506
								4.999	$\frac{15}{32}$	K	61074
	K50	3 $\frac{3}{8}$ (3.062)	4.125	$\frac{3}{16}$	K	61002					
			4.249	$\frac{3}{16}$	K	61004					
			4.376	$\frac{3}{16}$	K	61006					
			4.999	$\frac{15}{32}$	H	61008					
							3 $\frac{1}{2}$ (3.500)	4.376	$\frac{3}{16}$	K6	63427
								4.376	$\frac{3}{16}$	K60	63428
								4.501	$\frac{15}{32}$	K	61078
								4.501	$\frac{3}{16}$	H	63382
								4.501	$\frac{3}{16}$	K	61079
								4.502	$\frac{1}{4}$	K3	63174
	K6		4.125	$\frac{3}{16}$	K40	63400		4.502	$\frac{1}{4}$	K30	63383
			4.249	$\frac{3}{16}$	K	61015		4.626	$\frac{3}{16}$	K	61081
			4.249	$\frac{3}{4}$	KW	63111		4.724	$\frac{3}{16}$	W	63017
			4.376	$\frac{3}{16}$	K	61018		4.751	$\frac{1}{4}$	W	62042
			4.499	$\frac{15}{32}$	K	61019		4.751	$\frac{3}{16}$	K	61083
			4.999	$\frac{15}{32}$	K	61020		4.999	$\frac{15}{32}$	K	61085
			5.250	$\frac{15}{32}$	K	61022					

BOLD FACE numbers are popular stock sizes.

LIGHT FACE numbers are available from production tools and limited stock.

*See NUMERICAL Section, pages 365 to 371 for actual seal O.D. dimension.

†Sealing elements opposed.

‡With Offset.

VICTOPRENE OIL SEALS

PROGRESSIVE SIZE LISTING ARRANGED ACCORDING TO SHAFT DIAMETER

SHAFT DIA.	* HOUSING BORE	WIDTH OF SEAL ±.015	STOCK TYPE	VICTOR NO.	SHAFT DIA.	* HOUSING BORE	WIDTH OF SEAL ±.015	STOCK TYPE	VICTOR NO.
3 $\frac{1}{8}$ (3.562)	4.626	$\frac{3}{16}$	K	61090	4 (4.000)	4.751	$\frac{3}{16}$	H	61164
	4.751	$\frac{3}{16}$	K	61092		4.876	$\frac{3}{16}$	H	61165
	4.876	$\frac{3}{16}$	K	61094		4.999	$\frac{13}{32}$	H	61167
	4.876	$\frac{3}{8}$	K	61095		4.999	$\frac{1}{2}$	K4	63246
	4.999	$\frac{13}{32}$	K	61096		4.999	$\frac{1}{2}$	K40	63424
	5.750	$\frac{3}{16}$	H	61099		5.000	$\frac{3}{16}$	K3	63392
						5.000	$\frac{3}{16}$	K30	63237
						5.125	$\frac{3}{16}$	H	61169
3 $\frac{3}{8}$ (3.625)	4.625	$\frac{3}{16}$	K	61101		5.250	$\frac{1}{2}$	H	61171
	4.751	$\frac{3}{16}$	H	63384		5.250	$\frac{3}{16}$	H	61173
	4.751	$\frac{3}{16}$	K	61103		5.373	$\frac{1}{2}$	H	61174
	4.876	$\frac{3}{16}$	K	61105		5.500	$\frac{3}{16}$	H	61175
	4.999	$\frac{13}{32}$	K	61108		5.625	$\frac{1}{2}$	H	61176
	4.999	$\frac{3}{8}$	K	61109		5.750	$\frac{1}{2}$	H	61178
						5.750	$\frac{3}{16}$	H	61177
						6.000	$\frac{3}{16}$	H	61179
						6.250	$\frac{3}{16}$	H	61181
3 $\frac{11}{16}$ (3.687)	4.501	$\frac{3}{16}$	K6	63591	4 $\frac{1}{8}$ (4.062)	5.250	$\frac{3}{16}$	H	61186
	4.751	$\frac{3}{16}$	K	61112		5.500	$\frac{3}{16}$	H	61188
	4.876	$\frac{3}{16}$	K	61114		5.750	$\frac{3}{16}$	H	61190
	4.999	$\frac{13}{32}$	H	61116		6.000	$\frac{3}{16}$	H	61192
	5.125	$\frac{17}{32}$	H	61117		6.250	$\frac{3}{16}$	H	61194
3 $\frac{3}{4}$ (3.750)	4.750	$\frac{3}{8}$	K3	63386	4 $\frac{1}{8}$ (4.125)	4.999	$\frac{13}{32}$	H	61197
	4.750	$\frac{3}{8}$	K30	63385		5.250	$\frac{3}{16}$	H	61199
	4.751	$\frac{3}{16}$	H	63387		5.500	$\frac{3}{16}$	H	61201
	4.751	$\frac{3}{16}$	K	61121		5.750	$\frac{3}{16}$	H	61203
	4.876	$\frac{3}{16}$	K	61123		6.000	$\frac{3}{16}$	H	61205
	4.999	$\frac{13}{32}$	H	63388		6.250	$\frac{3}{16}$	H	61207
	4.999	$\frac{13}{32}$	K	61125					
	5.250	$\frac{3}{16}$	K	61127					
					4 $\frac{3}{8}$ (4.187)	5.250	$\frac{3}{16}$	H	61212
						5.250	$\frac{1}{2}$	K4	63181
						5.250	$\frac{1}{2}$	K40	63393
						5.500	$\frac{3}{16}$	H	61214
						5.750	$\frac{3}{16}$	H	61216
						6.000	$\frac{3}{16}$	H	61218
						6.250	$\frac{3}{16}$	H	61220
3 $\frac{5}{8}$ (3.797)	4.501	$\frac{1}{4}$	W	63389	4 $\frac{3}{8}$ (4.234)	6.249	$\frac{5}{8}$	H	61222
3 $\frac{13}{16}$ (3.812)	4.626	$\frac{3}{16}$	H	63390	4 $\frac{1}{4}$ (4.250)	5.250	$\frac{1}{4}$	W	62080
	4.626	$\frac{3}{16}$	K	61132		5.250	$\frac{3}{16}$	H	61225
	4.751	$\frac{3}{16}$	K	61134		5.375	$\frac{3}{16}$	H	61227
	4.876	$\frac{3}{16}$	K	61136		5.500	$\frac{3}{16}$	H	61229
	4.999	$\frac{13}{32}$	K	61138		5.750	$\frac{3}{16}$	H	61232
	5.250	$\frac{3}{16}$	K	61140		6.000	$\frac{3}{16}$	H	61234
						6.125	$\frac{3}{16}$	H	61235
						6.250	$\frac{3}{16}$	H	61236
3 $\frac{7}{8}$ (3.875)	4.751	$\frac{3}{16}$	K	61145					
	4.876	$\frac{3}{16}$	K	61147	4 $\frac{3}{8}$ (4.312)	5.500	$\frac{3}{16}$	H	61241
	4.999	$\frac{13}{32}$	H	63391		5.750	$\frac{3}{16}$	H	61243
	4.999	$\frac{13}{32}$	K	61150		6.000	$\frac{3}{16}$	H	61245
	5.125	$\frac{1}{2}$	K6	63594		6.250	$\frac{3}{16}$	H	61247
	5.125	$\frac{3}{8}$	K	61152					
	5.250	$\frac{3}{16}$	K	61151					
	5.688	$\frac{3}{8}$	K6	63590	4 $\frac{1}{2}$ (4.343)	6.000	$\frac{3}{16}$	H	61249
3 $\frac{15}{16}$ (3.937)	4.876	$\frac{3}{16}$	K	61156					
	4.999	$\frac{13}{32}$	K	61158					
	5.250	$\frac{3}{16}$	K	61160					
	5.375	$\frac{3}{8}$	H	61162					
	5.500	$\frac{3}{16}$	K	61161					

BOLD FACE numbers are popular stock sizes.

LIGHT FACE numbers are available from production tools and limited stock.

*See NUMERICAL Section, pages 365 to 371 for actual seal O.D. dimension.

†Sealing elements opposed.

‡With Offset.

H



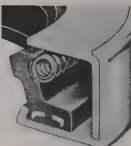
HF



HW



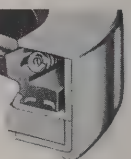
K



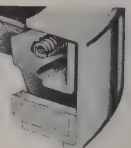
KT5



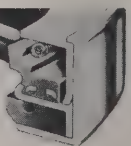
KF



K3F



KW



W



VICTOPRENE OIL SEALS

PROGRESSIVE SIZE LISTING ARRANGED ACCORDING TO SHAFT DIAMETER


K3

SHAFT DIA.	* HOUSING BORE	WIDTH OF SEAL ±.015	STOCK TYPE	VICTOR NO.
4 $\frac{3}{8}$	5.500	$\frac{1}{2}$	H	61252
(4.375)	5.750	$\frac{5}{16}$	H	61254
	6.000	$\frac{5}{16}$	H	61256
	6.064	$\frac{5}{16}$	H	61257
	6.250	$\frac{5}{16}$	H	61258


K30

4 $\frac{7}{16}$	5.500	$\frac{5}{16}$	H	61263
(4.437)	5.750	$\frac{5}{16}$	H	61266
	6.000	$\frac{5}{16}$	H	61268
	6.250	$\frac{5}{16}$	H	61270
(4.477)	6.250	$\frac{3}{8}$	H	61272


K31

4 $\frac{1}{2}$	5.253	$\frac{3}{16}$	K4	63199
(4.500)	5.253	$\frac{3}{16}$	K40	63394
	5.500	$\frac{5}{16}$	H	61275
	5.625	$\frac{5}{16}$	H	61277
	5.750	$\frac{5}{16}$	H	61279
	6.000	$\frac{5}{16}$	H	61281
	6.125	$\frac{5}{16}$	H	61282
	6.250	$\frac{5}{16}$	K6	63592
	6.250	$\frac{5}{16}$	H	61283
	7.125	$\frac{5}{16}$	H	61286


K4

4 $\frac{3}{8}$	5.750	$\frac{5}{16}$	H	61288
(4.562)	6.000	$\frac{5}{16}$	H	61290
	6.250	$\frac{5}{16}$	H	61292


K40

(4.603)	6.251	$\frac{3}{8}$	H	63395
4 $\frac{3}{8}$	5.750	$\frac{5}{16}$	H	61297
(4.625)	6.000	$\frac{5}{16}$	H	61299
	6.250	$\frac{5}{16}$	H	61301


K5

4 $\frac{1}{8}$	5.750	$\frac{5}{16}$	H	61306
(4.687)	6.000	$\frac{1}{4}$	W	62025
	6.000	$\frac{5}{16}$	H	61308
	6.250	$\frac{5}{16}$	H	61310
	6.371	$\frac{5}{8}$	H	61312


K50

4 $\frac{3}{4}$	5.625	$\frac{3}{16}$	H	61314
(4.750)	5.750	$\frac{5}{16}$	H	61315
	5.750	$\frac{5}{16}$	K6T	63643
	5.875	$\frac{5}{16}$	H	61317
	6.000	$\frac{5}{16}$	H	61319
	6.250	$\frac{5}{16}$	H	61321


K6

4 $\frac{1}{8}$	6.000	$\frac{1}{4}$	W	62022
(4.812)	6.000	$\frac{5}{16}$	H	61326
	6.250	$\frac{5}{16}$	H	61328

4 $\frac{3}{8}$	6.000	$\frac{5}{16}$	H	61333
(4.875)	6.125	$\frac{5}{16}$	H	61335
	6.255	$\frac{5}{16}$	H	61337


K60

4 $\frac{1}{2}$	6.000	$\frac{5}{16}$	H	61342
(4.937)	6.250	$\frac{5}{16}$	H	61344

SHAFT DIA.	* HOUSING BORE	WIDTH OF SEAL ±.015	STOCK TYPE	VICTOR NO.
5	5.998	$\frac{1}{2}$	K4	63396
(5.000)	5.998	$\frac{1}{2}$	K40	63397
	6.250	$\frac{5}{16}$	H	61349
	6.500	$\frac{5}{16}$	H	61350
5 $\frac{1}{8}$	6.375	$\frac{5}{16}$	H	61354
(5.125)				
5 $\frac{1}{4}$	6.500	$\frac{5}{16}$	H	61359
(5.250)				
5 $\frac{3}{4}$	6.625	$\frac{5}{16}$	H	61364
(5.375)				
5 $\frac{1}{2}$	6.250	$\frac{1}{2}$	K6	63507
(5.500)	6.625	$\frac{1}{32}$	K4	63398
	6.625	$\frac{1}{32}$	K40	63399
	6.750	$\frac{5}{16}$	H	61369
5 $\frac{3}{8}$	6.875	$\frac{5}{16}$	H	61374
(5.625)				
5 $\frac{3}{4}$	7.000	$\frac{5}{16}$	H	61379
(5.750)				
5 $\frac{1}{4}$	7.125	$\frac{5}{16}$	H	61384
(5.875)				
6	6.751	$\frac{1}{32}$	K6	63608
(6.000)	7.500	$\frac{5}{8}$	H	61389
6 $\frac{1}{8}$	7.625	$\frac{5}{8}$	H	61394
(6.125)				
6 $\frac{3}{8}$	7.500	$\frac{1}{4}$	W	62056
(6.187)				
6 $\frac{1}{4}$	7.750	$\frac{5}{8}$	H	61399
(6.250)				
6 $\frac{3}{8}$	7.875	$\frac{5}{8}$	H	61404
(6.375)				
6 $\frac{1}{8}$	7.750	$\frac{1}{4}$	W	62063
(6.437)				
(6.450)	7.250	$\frac{1}{4}$	W	62057
6 $\frac{1}{2}$	8.000	$\frac{5}{8}$	H	61409
(6.500)	8.000	1	HW†	63016
6 $\frac{3}{8}$	8.125	$\frac{5}{8}$	H	61414
(6.625)				
6 $\frac{1}{4}$	8.250	$\frac{5}{8}$	H	61419
(6.750)				
6 $\frac{3}{8}$	8.375	$\frac{5}{8}$	H	61424
(6.875)				

BOLD FACE numbers are popular stock sizes.

LIGHT FACE numbers are available from production tools and limited stock.

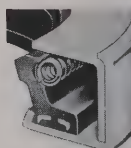
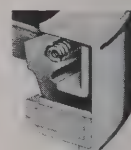
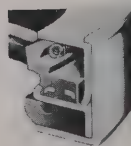
*See NUMERICAL Section, pages 365 to 371 for actual seal O.D. dimension.

†Sealing elements opposed.

‡With Offset.

VICTOPRENE OIL SEALS**PROGRESSIVE SIZE LISTING ARRANGED ACCORDING TO SHAFT DIAMETER**

SHAFT DIA.	* HOUSING BORE	WIDTH OF SEAL ±.015	STOCK TYPE	VICTOR NO.	SHAFT DIA.	* HOUSING BORE	WIDTH OF SEAL ±.015	STOCK TYPE	VICTOR NO.
7 (7.000)	8.500 8.500	$\frac{5}{8}$ $\frac{3}{4}$	H H	61429 61430	$8\frac{7}{8}$ (8.875)	10.875	$1\frac{1}{8}$	H	61505
$7\frac{1}{8}$ (7.125)	8.625	$\frac{5}{8}$	H	61434	9 (9.000)	11.000	$1\frac{1}{8}$	H	61510
$7\frac{1}{4}$ (7.250)	8.750	$\frac{5}{8}$	H	61439	$9\frac{1}{8}$ (9.125)	11.125	$1\frac{1}{8}$	H	61515
$7\frac{3}{8}$ (7.375)	8.875	$\frac{5}{8}$	H	61444	$9\frac{1}{4}$ (9.250)	11.250	$1\frac{1}{8}$	H	61520
$7\frac{1}{2}$ (7.500)	8.500 9.000	$\frac{1}{2}$ $\frac{5}{8}$	K6T H	63644 61449	$9\frac{1}{2}$ (9.500)	11.500	$1\frac{1}{8}$	H	61530
$7\frac{5}{8}$ (7.625)	9.125	$\frac{5}{8}$	H	61454	$9\frac{3}{8}$ (9.625)	11.625	$1\frac{1}{8}$	H	61535
$7\frac{3}{4}$ (7.750)	9.250	$\frac{5}{8}$	H	61459	$9\frac{3}{4}$ (9.750)	11.750	$1\frac{1}{8}$	H	61540
$7\frac{7}{8}$ (7.875)	9.375	$\frac{5}{8}$	H	61464	$9\frac{7}{8}$ (9.875)	11.875	$1\frac{1}{8}$	H	61545
8 (8.000)	9.250 9.500 10.000	$1\frac{1}{8}$ $1\frac{1}{8}$ $1\frac{1}{8}$	H H H	61466 61467 61469	10 (10.000)	11.000 12.000	$\frac{3}{8}$ $1\frac{1}{8}$	K3 H	63593 61550
$8\frac{1}{8}$ (8.125)	10.125	$1\frac{1}{8}$	H	61474	$10\frac{1}{4}$ (10.250)	12.250	$1\frac{1}{8}$	H	61559
$8\frac{1}{4}$ (8.250)	10.250 10.250	$\frac{7}{16}$ $1\frac{1}{8}$	W H	62072 61479	$10\frac{1}{2}$ (10.500)	12.500	$1\frac{1}{8}$	H	61567
$8\frac{1}{2}$ (8.500)	10.500	$1\frac{1}{8}$	H	61489	11 (11.000)	13.000	$1\frac{1}{8}$	H	61585
$8\frac{3}{8}$ (8.625)	10.625	$1\frac{1}{8}$	H	61494	$11\frac{1}{2}$ (11.500)	13.500	$1\frac{1}{8}$	H	61604
$8\frac{3}{4}$ (8.703)	10.000	$\frac{1}{2}$	W	62064	12 (12.000)	14.000	$1\frac{1}{8}$	H	61621
$8\frac{7}{8}$ (8.750)	10.750	$1\frac{1}{8}$	H	61500					

H**HF****HW****K****K15****KF****K3F****KW****W**

BOLD FACE numbers are popular stock sizes.

LIGHT FACE numbers are available from production tools and limited stock.

*See NUMERICAL Section, pages 365 to 371 for actual seal O.D. dimension.

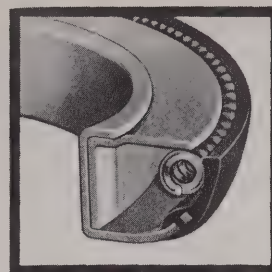
†Sealing elements opposed.

‡With Offset.

NEED HELP ON BEARINGS—CALL US

VICTOPRENE OIL SEALS

Press fits on the shaft or hub with the sealing function at the outer periphery. The housing bore must be ground and polished.



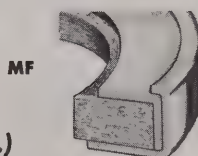
TYPE E

TYPE E EXTERNAL

Inside Dia.	Housing Bore	O.D. of Seal	Width of Seal ±.015	Victor No.	Inside Dia.	Housing Bore	O.D. of Seal	Width of Seal ±.015	Victor No.
1.562	2.718	2.750	$\frac{7}{16}$ "	63419	3.432	4.625	4.686	$\frac{31}{64}$ "	63143
1.745	2.781	2.843	$\frac{1}{2}$ "	63116	3.872	6.000	6.062	$\frac{9}{16}$ "	63402
1.780	2.687	2.749	$\frac{33}{64}$ "	63050	4.818	6.500	6.578	$\frac{39}{64}$ "	63087
2.057	3.250	3.312	$\frac{1}{2}$ "	63115	5.368	6.697	6.750	$\frac{9}{16}$ "	63012
3.245	4.497	4.559	$\frac{9}{16}$ "	63051					

METAL ENCASED FELT

(Seals from production tools are available in the following sizes.)



Shaft Dia.	Housing Bore	O.D. of Seal ±.002	Width of Seal ±.015	Shaft Dia.	Housing Bore	O.D. of Seal ±.002	Width of Seal ±.015
$\frac{5}{8}$ (.625)	1.370 1.374	1.374 1.378	$\frac{9}{32}$ " $\frac{3}{8}$ "	$1\frac{15}{32}$ (1.468)	2.438	2.442	$1\frac{13}{32}$ "
$\frac{3}{4}$ (.750)	1.250	1.254	$\frac{1}{4}$ "	$1\frac{1}{2}$ (1.500)	2.250 2.437 2.460	2.254 2.442 2.462	$1\frac{15}{32}$ " $1\frac{13}{32}$ " $\frac{33}{64}$ "
$1\frac{15}{16}$ (.938)	1.498	1.502	$1\frac{11}{32}$ "	$1\frac{17}{32}$ (1.531)	2.062	2.066	$\frac{1}{4}$ "
$1\frac{1}{16}$ (1.062)	1.624	1.628	$\frac{1}{4}$ "	$1\frac{9}{16}$ (1.562)	2.556 2.561 2.561	2.560 2.565 2.565	$1\frac{15}{32}$ " $1\frac{13}{32}$ " $\frac{7}{16}$ "
$1\frac{1}{8}$ (1.125)	1.781 2.559	1.785 2.563	$1\frac{15}{32}$ " $\frac{1}{2}$ "	$1\frac{19}{32}$ (1.593)	2.500 2.546	2.504 2.550	$\frac{9}{32}$ " $\frac{1}{2}$ "
$1\frac{5}{32}$ (1.156)	2.381	2.383	$2\frac{27}{64}$ "	$1\frac{5}{8}$ (1.625)	2.327 2.440 2.781	2.331 2.444 2.785	$\frac{7}{16}$ " $1\frac{15}{32}$ " $\frac{5}{16}$ "
$1\frac{3}{16}$ (1.188)	1.811 2.062	1.815 2.065	$2\frac{21}{64}$ " $\frac{3}{8}$ "	$1\frac{11}{16}$ (1.687)	2.500	2.505	$\frac{1}{4}$ "
$1\frac{7}{32}$ (1.218)	2.250	2.254	$1\frac{15}{32}$ "	$1\frac{23}{32}$ (1.718)	2.441	2.445	$1\frac{13}{32}$ "
$1\frac{5}{16}$ (1.313)	2.373 2.690 4.441	2.377 2.694 4.445	$2\frac{29}{64}$ " $2\frac{21}{64}$ " $1\frac{15}{32}$ "	$1\frac{7}{4}$ (1.741)	2.441	2.445	$\frac{7}{16}$ "
$1\frac{3}{8}$ (1.375)	2.311 2.437 2.481 2.496 2.563	2.315 2.441 2.485 2.500 2.567	$3\frac{31}{64}$ " $\frac{7}{16}$ " $1\frac{15}{32}$ " $1\frac{15}{32}$ " $2\frac{31}{64}$ "	$1\frac{3}{4}$ (1.750)	2.497 2.717 2.875	2.501 2.721 2.879	$\frac{7}{16}$ " $1\frac{13}{32}$ " $\frac{1}{2}$ "
$1\frac{13}{32}$ (1.406)	2.684	2.688	$1\frac{13}{32}$ "				
$1\frac{1}{16}$ (1.437)	2.486	2.490	$\frac{1}{2}$ "				

Continued on next page.

VICTOPRENE OIL SEALS**METAL ENCASED FELT—continued**

Shaft Diameter	Housing Bore	O.D. of Seal ±.002	Width of Seal ±.015	Shaft Diameter	Housing Bore	O.D. of Seal ±.002	Width of Seal ±.015
$1\frac{51}{64}$ (1.796)	2.752	2.757	$\frac{29}{64}$ "	$2\frac{5}{16}$ (2.312)	3.751	3.755	$\frac{13}{32}$ "
$1\frac{13}{16}$ (1.812)	2.868	2.872	$\frac{11}{32}$ "	$2\frac{21}{64}$ (2.328)	3.188	3.193	$\frac{15}{32}$ "
	2.964	2.968	$\frac{1}{4}$ "				
	2.968	2.971	$\frac{1}{4}$ "				
	3.000	3.005	$\frac{3}{8}$ "	$2\frac{11}{32}$ (2.343)	2.998	3.002	$\frac{9}{32}$ "
$1\frac{27}{32}$ (1.843)	2.964	2.968	$\frac{1}{4}$ "		3.605	3.610	$\frac{13}{32}$ "
$1\frac{7}{8}$ (1.875)	2.720	2.724	$\frac{7}{16}$ "	$2\frac{1}{2}$ (2.500)	3.251	3.256	$\frac{1}{2}$ "
	2.721	2.725	$\frac{7}{32}$ "		3.312	3.316	$\frac{15}{32}$ "
	2.833	2.837	$\frac{1}{4}$ "		3.609	3.613	$\frac{13}{32}$ "
	2.954	2.958	$\frac{11}{32}$ "				
	2.966	2.970	$\frac{1}{4}$ "	$2\frac{5}{8}$ (2.625)	3.440	3.445	$\frac{3}{8}$ "
$1\frac{61}{64}$ (1.953)	2.964	2.968	$\frac{15}{64}$ "	$2\frac{15}{16}$ (2.937)	3.998	4.000	$\frac{7}{16}$ "
	2.965	2.969	$\frac{1}{4}$ "				
2 (2.000)	2.745	2.749	$\frac{5}{16}$ "	$2\frac{31}{32}$ (2.969)	4.632	4.637	$\frac{7}{16}$ "
	3.150	3.154	$\frac{1}{4}$ "				
	3.154	3.159	$\frac{9}{32}$ "	3 (3.000)	4.003	4.008	$\frac{7}{16}$ "
$2\frac{1}{16}$ (2.062)	2.877	2.879	$\frac{17}{32}$ "				
	3.142	3.147	$\frac{3}{8}$ "				
	3.150	3.154	$\frac{1}{4}$ "	$3\frac{1}{8}$ (3.125)	4.562	4.567	$\frac{11}{16}$ "
	3.153	3.157	$\frac{13}{32}$ "				
	3.188	3.192	$\frac{29}{64}$ "	$3\frac{3}{16}$ (3.187)	4.632	4.637	$\frac{7}{16}$ "
$2\frac{1}{8}$ (2.125)	2.877	2.879	$\frac{17}{32}$ "				
	3.067	3.069	$\frac{1}{2}$ "				
	3.126	3.130	$\frac{15}{32}$ "				
	3.145	3.150	$\frac{1}{4}$ "	$10\frac{15}{32}$ (10.468)	11.184	11.194	$\frac{7}{16}$ "
$2\frac{1}{4}$ (2.250)	3.121	3.125	$\frac{19}{32}$ "				
	3.252	3.256	$\frac{1}{2}$ "				

RECOMMENDED PRESS FITS FOR OIL SEALS

Bore Size	Tolerance	FOR METAL O.D.		FOR RUBBER O.D.	
		Seal O.D.	Tolerance	Seal O.D.	Tolerance
Up to -.2999"	±.001	.004" larger than bore	±.002	.006" larger than bore	±.002
3.00" 4.999"	±.0015	.005" larger than bore	±.002	.007" larger than bore	±.002
5.00" 5.999"	±.0015	.006" larger than bore	±.002	.008" larger than bore	±.002
6.00" 6.999"	±.002	.007" larger than bore	±.002	.009" larger than bore	+.002 -.003
7.00" 7.999"	±.002	.008" larger than bore	±.002	.010" larger than bore	+.002 -.003
8.00" 8.999"	±.002	.009" larger than bore	±.002	.010" larger than bore	+.002 -.003
9" & Up	±.002	.010" larger than bore	±.002	.010" larger than bore	+.002 -.003

SEE FOLLOWING PAGES FOR NUMERICAL LISTING

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VICTOPRENE OIL SEALS NUMERICAL LISTING

This is a shaft size reference by Part Number. It provides a quick guide for locating specific part numbers in the Progressive Size and Type section. See pages 348 to 374 for complete Engineering and Dimensional Data.

VICTOR NO.	SHAFT DIA.	O.D. OF SEAL ±.002 *	VICTOR NO.	SHAFT DIA.	O.D. OF SEAL ±.002 *	VICTOR NO.	SHAFT DIA.	O.D. OF SEAL ±.002 *	VICTOR NO.	SHAFT DIA.	O.D. OF SEAL ±.002 *
60000	$\frac{5}{16}$	1.003	60153	$\frac{25}{32}$	1.628	60286	$1\frac{1}{8}$	1.756	60421	$1\frac{3}{8}$	2.066
60001	$\frac{5}{16}$	.754	60155	$\frac{25}{32}$	1.756	60288	$1\frac{1}{8}$	1.832	60423	$1\frac{3}{8}$	2.110
60005	$\frac{11}{32}$	1.003	60157	$\frac{25}{32}$	1.832	60290	$1\frac{1}{8}$	1.878	60425	$1\frac{3}{8}$	2.129
60010	$\frac{3}{8}$	1.003	60162	$\frac{13}{16}$	1.379	60294	$1\frac{1}{8}$	1.987	60427	$1\frac{3}{8}$	2.254
60012	$\frac{3}{8}$	1.128	60166	$\frac{13}{16}$	1.503	60295	$1\frac{1}{8}$	2.004	60429	$1\frac{3}{8}$	2.286
60014	$\frac{3}{8}$	1.254	60168	$\frac{13}{16}$	1.628	60296	$1\frac{1}{8}$	2.004	60431	$1\frac{3}{8}$	2.378
60016	$\frac{3}{8}$	1.503	60170	$\frac{13}{16}$	1.756	60301	$1\frac{3}{32}$	1.832	60436	$1\frac{11}{32}$	2.110
60023	$\frac{13}{32}$	1.128	60172	$\frac{13}{16}$	1.832	60305	$1\frac{3}{32}$	1.878	60438	$1\frac{11}{32}$	2.129
60025	$\frac{13}{32}$	1.254	60177	$\frac{27}{32}$	1.503	60307	$1\frac{3}{32}$	1.987	60440	$1\frac{11}{32}$	2.254
60030	$\frac{3}{4}$	1.003	60179	$\frac{27}{32}$	1.628	60309	$1\frac{3}{32}$	2.004	60442	$1\frac{11}{32}$	2.378
60033	$\frac{3}{16}$	1.128	60181	$\frac{27}{32}$	1.756	60314	$1\frac{1}{8}$	1.565	60449	$1\frac{3}{8}$	2.004
60034	$\frac{3}{16}$	1.254	60183	$\frac{27}{32}$	1.832	60318	$1\frac{1}{8}$	1.832	60450	$1\frac{3}{8}$	2.066
60039	$\frac{13}{32}$	1.003	60192	$\frac{7}{8}$	1.375	60319	$1\frac{1}{8}$	1.855	60451	$1\frac{3}{8}$	2.066
60041	$\frac{13}{32}$	1.128	60193	$\frac{7}{8}$	1.379	60320	$1\frac{1}{8}$	1.878	60452	$1\frac{3}{8}$	2.110
60043	$\frac{13}{32}$	1.254	60196	$\frac{7}{8}$	1.503	60322	$1\frac{1}{8}$	1.987	60454	$1\frac{3}{8}$	2.129
60047	.473	1.003	60199	$\frac{7}{8}$	1.579	60324	$1\frac{1}{8}$	2.004	60456	$1\frac{3}{8}$	2.254
60051	$\frac{1}{2}$	1.003	60200	$\frac{7}{8}$	1.628	60325	$1\frac{1}{8}$	2.051	60457	$1\frac{3}{8}$	2.281
60052	$\frac{1}{2}$	1.128	60202	$\frac{7}{8}$	1.756	60326	$1\frac{1}{8}$	2.066	60458	$1\frac{3}{8}$	2.378
60053	$\frac{1}{2}$	1.125	60204	$\frac{7}{8}$	1.832	60329	$1\frac{135}{32}$	1.832	60459	$1\frac{3}{8}$	2.378
60055	$\frac{1}{2}$	1.128	60205	$\frac{7}{8}$	1.878	60331	$1\frac{3}{32}$	1.987	60460	$1\frac{3}{8}$	2.410
60057	$\frac{1}{2}$	1.254	60206	$\frac{7}{8}$	2.054	60333	$1\frac{3}{32}$	2.004	60462	$1\frac{3}{8}$	2.441
60058	$\frac{1}{2}$	1.262	60207	$\frac{7}{8}$	1.853	60335	$1\frac{3}{32}$	2.066	60463	$1\frac{3}{8}$	2.506
60060	$\frac{1}{2}$	1.379	60211	$\frac{29}{32}$	1.503	60337	$1\frac{3}{32}$	2.110	60464	$1\frac{3}{8}$	2.690
60065	$\frac{17}{32}$	1.003	60213	$\frac{29}{32}$	1.628	60340	$1\frac{11}{16}$	1.832	60465	$1\frac{3}{8}$	2.839
60067	$\frac{17}{32}$	1.128	60215	$\frac{29}{32}$	1.756	60346	$1\frac{3}{8}$	1.878	60467	$1\frac{13}{32}$	2.254
60069	$\frac{17}{32}$	1.254	60217	$\frac{29}{32}$	1.832	60347	$1\frac{3}{8}$	1.987	60469	$1\frac{13}{32}$	2.378
60071	$\frac{17}{32}$	1.379	60222	$\frac{15}{16}$	1.503	60349	$1\frac{3}{8}$	2.004	60471	$1\frac{13}{32}$	2.410
60076	$\frac{5}{8}$	1.003	60224	$\frac{15}{16}$	1.628	60351	$1\frac{3}{8}$	2.051	60473	$1\frac{13}{32}$	2.441
60078	$\frac{5}{8}$	1.128	60226	$\frac{15}{16}$	1.756	60353	$1\frac{3}{8}$	2.066	60476	$1\frac{3}{8}$	2.129
60080	$\frac{5}{8}$	1.254	60228	$\frac{15}{16}$	1.832	60355	$1\frac{3}{8}$	2.110	60477	$1\frac{3}{8}$	2.254
60082	$\frac{5}{8}$	1.379	60230	$\frac{15}{16}$	1.853	60357	$1\frac{3}{8}$	2.129	60478	$1\frac{3}{8}$	2.254
60087	$\frac{19}{32}$	1.128	60233	$\frac{31}{32}$	1.503	60359	$1\frac{3}{8}$	2.441	60480	$1\frac{3}{8}$	2.378
60089	$\frac{19}{32}$	1.254	60235	$\frac{31}{32}$	1.628	60371	1.219	1.987	60482	$1\frac{3}{8}$	2.410
60091	$\frac{19}{32}$	1.379	60237	$\frac{31}{32}$	1.756	60373	1.219	2.004	60484	$1\frac{3}{8}$	2.441
60096	$\frac{5}{8}$	1.128	60239	$\frac{31}{32}$	1.832	60375	1.219	2.066	60485	$1\frac{3}{8}$	2.690
60098	$\frac{5}{8}$	1.254	60242	1	1.441	60376	1.219	2.066	60486	$1\frac{3}{8}$	2.762
60101	$\frac{5}{8}$	1.379	60245	1	1.503	60377	1.219	2.110	60487	$1\frac{13}{32}$	2.254
60106	$\frac{21}{32}$	1.379	60247	1	1.628	60379	1.219	2.129	60489	$1\frac{13}{32}$	2.378
60109	$\frac{11}{16}$	1.254	60250	1	1.756	60382	$1\frac{1}{4}$	1.690	60491	$1\frac{13}{32}$	2.410
60111	$\frac{11}{16}$	1.379	60252	1	1.832	60386	$1\frac{1}{4}$	1.987	60493	$1\frac{13}{32}$	2.441
60113	$\frac{11}{16}$	1.503	60254	1	1.878	60388	$1\frac{1}{4}$	2.004	60494	$1\frac{1}{2}$	1.987
60118	$\frac{23}{32}$	1.379	60256	1	1.987	60390	$1\frac{1}{4}$	2.066	60497	$1\frac{1}{2}$	2.258
60120	$\frac{23}{32}$	1.503	60258	1	2.004	60392	$1\frac{1}{4}$	2.066	60498	$1\frac{1}{2}$	2.254
60126	$\frac{3}{4}$	1.254	60260	1	2.004	60394	$1\frac{1}{4}$	2.110	60500	$1\frac{1}{2}$	2.378
60127	$\frac{3}{4}$	1.254	60261	1	2.066	60395	$1\frac{1}{4}$	2.129	60502	$1\frac{1}{2}$	2.410
60128	$\frac{3}{4}$	1.315	60265	$1\frac{1}{32}$	1.503	60396	$1\frac{1}{4}$	2.129	60504	$1\frac{1}{2}$	2.441
60134	$\frac{3}{4}$	1.379	60267	$1\frac{1}{32}$	1.628	60398	$1\frac{1}{4}$	2.254	60506	$1\frac{1}{2}$	2.506
60135	$\frac{3}{4}$	1.379	60268	$1\frac{1}{32}$	1.690	60401	$1\frac{1}{32}$	1.740	60510	$1\frac{1}{2}$	2.565
60137	$\frac{3}{4}$	1.503	60269	$1\frac{1}{32}$	1.756	60403	$1\frac{1}{32}$	1.987	60511	$1\frac{1}{2}$	2.754
60139	$\frac{3}{4}$	1.579	60273	$1\frac{1}{32}$	1.878	60405	$1\frac{1}{32}$	2.004	60512	$1\frac{1}{2}$	2.762
60140	$\frac{3}{4}$	1.628	60275	$1\frac{1}{32}$	1.987	60406	$1\frac{1}{32}$	2.028	60517	$1\frac{1}{32}$	2.378
60142	$\frac{3}{4}$	1.756	60277	$1\frac{1}{32}$	2.004	60407	$1\frac{1}{32}$	2.066	60519	$1\frac{1}{32}$	2.410
60144	$\frac{3}{4}$	1.832	60282	$1\frac{1}{8}$	1.503	60409	$1\frac{1}{32}$	2.110	60521	$1\frac{1}{32}$	2.441
60149	$\frac{23}{32}$	1.379	60284	$1\frac{1}{8}$	1.628	60411	$1\frac{1}{32}$	2.129	60523	$1\frac{1}{32}$	2.506
60151	$\frac{23}{32}$	1.503	60285	$1\frac{1}{8}$	1.690	60413	$1\frac{1}{32}$	2.254	60530	$1\frac{1}{8}$	2.378

*See PROGRESSIVE SIZE Listing, pages 348 to 362 for HOUSING BORE Dimension and WIDTH.

NEED HELP ON BEARINGS—CALL US

VICTOPRENE OIL SEALS

NUMERICAL LISTING

VICTOR NO.	SHAFT DIA.	O.D. OF SEAL ±.002 *	VICTOR NO.	SHAFT DIA.	O.D. OF SEAL ±.002 *	VICTOR NO.	SHAFT DIA.	O.D. OF SEAL ±.002 *	VICTOR NO.	SHAFT DIA.	O.D. OF SEAL ±.002 *
60531	1 $\frac{1}{8}$	2.378	60656	1 $\frac{3}{4}$	2.879	60800	2	3.194	60925	2 $\frac{3}{8}$	3.505
60532	1 $\frac{1}{8}$	2.441	60660	1 $\frac{3}{4}$	3.066	60802	2	3.376	60926	2 $\frac{3}{8}$	3.881
60534	1 $\frac{1}{8}$	2.444	60663	1 $\frac{3}{4}$	3.194	60808	2 $\frac{1}{8}$	2.848	60927	2 $\frac{3}{8}$	3.628
60536	1 $\frac{1}{8}$	2.506	60668	1 $\frac{49}{64}$	2.416	60810	2 $\frac{1}{8}$	3.005	60928	2 $\frac{1}{2}$	3.486
60537	1 $\frac{1}{8}$	2.565	60671	1 $\frac{25}{32}$	2.627	60812	2 $\frac{1}{8}$	3.066	60929	2 $\frac{3}{8}$	3.505
60538	1 $\frac{1}{8}$	2.627	60673	1 $\frac{25}{32}$	2.690	60814	2 $\frac{1}{8}$	3.130	60930	2 $\frac{3}{8}$	3.355
60539	1 $\frac{1}{8}$	2.691	60675	1 $\frac{25}{32}$	2.754	60816	2 $\frac{1}{8}$	3.194	60931	2 $\frac{3}{8}$	3.548
60540	1 $\frac{1}{8}$	2.690	60681	1 $\frac{25}{32}$	2.879	60817	2 $\frac{1}{8}$	3.194	60932	2 $\frac{3}{8}$	3.628
60541	1 $\frac{1}{8}$	2.719	60683	1 $\frac{25}{32}$	3.194	60819	2 $\frac{1}{8}$	3.256	60933	2 $\frac{3}{8}$	3.444
60542	1 $\frac{1}{8}$	2.751	60688	1 $\frac{13}{16}$	2.627	60827	2 $\frac{1}{8}$	2.879	60934	2 $\frac{3}{8}$	3.756
60543	1 $\frac{1}{8}$	2.879	60690	1 $\frac{13}{16}$	2.690	60829	2 $\frac{1}{8}$	2.882	60936	2 $\frac{3}{8}$	3.881
60544	1 $\frac{1}{8}$	3.001	60692	1 $\frac{13}{16}$	2.754	60833	2 $\frac{1}{8}$	3.001	60939	2 $\frac{3}{8}$	4.442
60546	1 $\frac{1}{8}$	2.412	60698	1 $\frac{13}{16}$	2.879	60834	2 $\frac{1}{8}$	3.003	60943	2 $\frac{1}{2}$	3.756
60549	1 $\frac{19}{32}$	2.441	60700	1 $\frac{13}{16}$	3.194	60835	2 $\frac{1}{8}$	3.005	60945	2 $\frac{1}{2}$	3.881
60551	1 $\frac{19}{32}$	2.506	60708	1 $\frac{27}{32}$	2.627	60837	2 $\frac{1}{8}$	3.066	60949	2 $\frac{3}{4}$	3.505
60553	1 $\frac{19}{32}$	2.627	60712	1 $\frac{27}{32}$	2.754	60839	2 $\frac{1}{8}$	3.130	60950	2 $\frac{3}{4}$	3.543
60555	1 $\frac{19}{32}$	2.762	60718	1 $\frac{27}{32}$	2.879	60841	2 $\frac{1}{8}$	3.194	60952	2 $\frac{3}{4}$	3.628
60562	1 $\frac{5}{8}$	2.378	60720	1 $\frac{27}{32}$	3.194	60843	2 $\frac{1}{8}$	3.256	60953	2 $\frac{3}{4}$	3.755
60564	1 $\frac{5}{8}$	2.441	60725	1 $\frac{7}{8}$	2.627	60845	2 $\frac{1}{8}$	3.355	60954	2 $\frac{3}{4}$	3.756
60568	1 $\frac{5}{8}$	2.506	60727	1 $\frac{7}{8}$	2.690	60853	2 $\frac{3}{8}$	3.066	60956	2 $\frac{3}{4}$	3.881
60570	1 $\frac{5}{8}$	2.627	60728	1 $\frac{7}{8}$	2.690	60856	2 $\frac{3}{8}$	3.192	60961	2 $\frac{3}{8}$	3.756
60572	1 $\frac{5}{8}$	2.690	60729	1 $\frac{7}{8}$	2.719	60858	2 $\frac{3}{8}$	3.256	60963	2 $\frac{3}{8}$	3.881
60574	1 $\frac{5}{8}$	2.754	60730	1 $\frac{7}{8}$	2.754	60861	2 $\frac{3}{8}$	3.355	60964	2 $\frac{7}{32}$	3.944
60578	1 $\frac{5}{8}$	2.819	60732	1 $\frac{7}{8}$	2.762	60862	2 $\frac{3}{8}$	3.075	60965	2 $\frac{7}{32}$	4.007
60580	1 $\frac{5}{8}$	2.879	60734	1 $\frac{7}{8}$	2.787	60863	2 $\frac{1}{4}$	3.001	60968	2 $\frac{7}{8}$	3.756
60581	1 $\frac{5}{8}$	3.005	60735	1 $\frac{7}{8}$	2.873	60864	2 $\frac{1}{4}$	3.005	60970	2 $\frac{7}{8}$	3.881
60583	1 $\frac{5}{8}$	3.066	60736	1 $\frac{7}{8}$	2.879	60866	2 $\frac{1}{4}$	3.066	60972	2 $\frac{7}{8}$	4.008
60584	1 $\frac{5}{8}$	3.256	60738	1 $\frac{7}{8}$	2.894	60867	2 $\frac{1}{4}$	3.194	60974	2 $\frac{7}{8}$	4.130
60585	1 $\frac{21}{32}$	2.506	60740	1 $\frac{7}{8}$	3.001	60868	2 $\frac{1}{4}$	3.256	60975	2 $\frac{7}{8}$	4.008
60587	1 $\frac{21}{32}$	2.627	60742	1 $\frac{7}{8}$	3.005	60870	2 $\frac{1}{4}$	3.355	60979	2 $\frac{1}{2}$	4.008
60589	1 $\frac{21}{32}$	2.690	60744	1 $\frac{7}{8}$	3.066	60872	2 $\frac{1}{4}$	3.379	60981	2 $\frac{1}{2}$	4.130
60591	1 $\frac{21}{32}$	2.754	60745	1 $\frac{7}{8}$	3.130	60873	2 $\frac{1}{4}$	3.486	60986	3	4.004
60603	1 $\frac{11}{16}$	2.506	60746	1 $\frac{7}{8}$	3.194	60875	2 $\frac{1}{4}$	3.505	60987	3	4.004
60605	1 $\frac{11}{16}$	2.627	60747	1 $\frac{7}{8}$	3.256	60877	2 $\frac{1}{4}$	3.628	60988	3	4.008
60607	1 $\frac{11}{16}$	2.690	60749	1 $\frac{7}{8}$	3.376	60879	2 $\frac{1}{4}$	3.881	60991	3	4.130
60608	1 $\frac{11}{16}$	2.719	60751	1 $\frac{29}{32}$	2.879	60883	2 $\frac{3}{8}$	3.256	60993	3	4.254
60609	1 $\frac{11}{16}$	2.754	60755	1 $\frac{29}{32}$	3.005	60885	2 $\frac{3}{8}$	3.256	60995	3	4.381
60615	1 $\frac{11}{16}$	2.879	60757	1 $\frac{29}{32}$	3.066	60887	2 $\frac{3}{8}$	3.355	60996	3	4.504
60617	1 $\frac{11}{16}$	3.066	60761	1 $\frac{29}{32}$	3.194	60889	2 $\frac{3}{8}$	3.505	60997	3	5.004
60620	1 $\frac{23}{32}$	2.441	60766	1 $\frac{13}{16}$	2.690	60893	2 $\frac{3}{8}$	3.256	61002	3 $\frac{1}{8}$	4.130
60622	1 $\frac{23}{32}$	2.627	60767	1 $\frac{13}{16}$	2.879	60894	2 $\frac{3}{8}$	3.355	61004	3 $\frac{1}{8}$	4.254
60624	1 $\frac{23}{32}$	2.690	60771	1 $\frac{13}{16}$	3.005	60895	2 $\frac{3}{8}$	3.488	61006	3 $\frac{1}{8}$	4.381
60626	1 $\frac{23}{32}$	2.754	60773	1 $\frac{13}{16}$	3.066	60896	2 $\frac{3}{8}$	3.486	61008	3 $\frac{1}{8}$	5.004
60632	1 $\frac{23}{32}$	2.879	60775	1 $\frac{13}{16}$	3.130	60897	2 $\frac{3}{8}$	3.505	61012	3 $\frac{1}{8}$	4.054
60635	1 $\frac{3}{4}$	2.254	60777	1 $\frac{13}{16}$	3.194	60898	2 $\frac{3}{8}$	3.505	61013	3 $\frac{1}{8}$	4.130
60638	1 $\frac{3}{4}$	2.506	60779	1 $\frac{13}{16}$	3.628	60902	2 $\frac{1}{2}$	3.355	61015	3 $\frac{1}{8}$	4.254
60640	1 $\frac{3}{4}$	2.506	60781	2	2.719	60903	2 $\frac{1}{2}$	3.486	61018	3 $\frac{1}{8}$	4.381
60641	1 $\frac{3}{4}$	2.627	60782	2	2.754	60905	2 $\frac{1}{2}$	3.505	61019	3 $\frac{1}{8}$	4.504
60642	1 $\frac{3}{4}$	2.565	60783	2	2.760	60907	2 $\frac{1}{2}$	3.548	61020	3 $\frac{1}{8}$	5.004
60643	1 $\frac{3}{4}$	2.627	60786	2	2.879	60911	2 $\frac{1}{2}$	3.256	61022	3 $\frac{1}{8}$	5.256
60644	1 $\frac{3}{4}$	2.690	60787	2	2.879	60913	2 $\frac{1}{2}$	3.355	61024	3 $\frac{1}{8}$	4.254
60645	1 $\frac{3}{4}$	2.690	60790	2	3.001	60914	2 $\frac{1}{2}$	3.376	61026	3 $\frac{1}{8}$	4.381
60646	1 $\frac{3}{4}$	2.754	60794	2	3.005	60918	2 $\frac{1}{2}$	3.505	61027	3 $\frac{1}{8}$	4.504
60648	1 $\frac{3}{4}$	2.762	60796	2	3.066	60920	2 $\frac{1}{2}$	3.548	61028	3 $\frac{1}{8}$	5.004
60655	1 $\frac{3}{4}$	2.879	60798	2	3.130	60922	2 $\frac{1}{2}$	3.628	61033	3 $\frac{1}{8}$	4.254

*See PROGRESSIVE SIZE Listing, pages 348 to 362 for HOUSING BORE Dimension and WIDTH.

NEED HELP ON BEARINGS—CALL US

VICTOPRENE OIL SEALS NUMERICAL LISTING

VICTOR NO.	SHAFT DIA.	O.D. OF SEAL ±.002 *	VICTOR NO.	SHAFT DIA.	O.D. OF SEAL ±.002 *	VICTOR NO.	SHAFT DIA.	O.D. OF SEAL ±.002 *	VICTOR NO.	SHAFT DIA.	O.D. OF SEAL ±.002 *
61036	3¼	4.381	61160	3⅝	5.256	61275	4½	5.506	61466	8	9.260
61038	3¼	4.504	61161	3⅝	5.506	61277	4½	5.631	61467	8	9.510
61040	3¼	4.506	61162	3⅝	5.381	61279	4½	5.756	61469	8	10.010
61041	3¼	4.631	61164	4	4.756	61281	4½	6.007	61474	8⅞	10.135
61042	3¼	5.004	61165	4	4.881	61282	4½	6.132	61479	8¼	10.260
61047	3⅝	4.254	61167	4	5.004	61283	4½	6.257	61489	8½	10.510
61049	3⅝	4.381	61169	4	5.131	61286	4½	7.133	61494	8⅝	10.635
61051	3⅝	4.504	61171	4	5.256	61288	4⅞	5.756	61500	8¾	10.760
61052	3⅝	4.506	61173	4	5.256	61290	4⅞	6.007	61505	8⅞	10.885
61054	3⅝	5.004	61174	4	5.379	61292	4⅞	6.257	61510	9	11.010
61059	3⅝	4.381	61175	4	5.506	61297	4⅞	5.756	61515	9⅞	11.135
61061	3⅝	4.506	61176	4	5.631	61299	4⅞	6.007	61520	9¼	11.260
61062	3⅝	4.506	61177	4	5.756	61301	4⅞	6.257	61530	9½	11.510
61063	3⅝	4.631	61178	4	5.756	61306	4⅞	5.756	61535	9⅝	11.635
61064	3⅝	4.693	61179	4	6.007	61308	4⅞	6.007	61540	9¾	11.760
61065	3⅝	5.004	61181	4	6.257	61310	4⅞	6.257	61545	9⅞	11.885
61070	3⅝	4.506	61186	4⅞	5.256	61312	4⅞	6.378	61550	10	12.010
61072	3⅝	4.631	61188	4⅞	5.506	61314	4¾	5.631	61559	10¼	12.260
61074	3⅝	5.004	61190	4⅞	5.756	61315	4¾	5.756	61567	10½	12.510
61078	3½	4.506	61192	4⅞	6.007	61317	4¾	5.881	61585	11	13.010
61079	3½	4.506	61194	4⅞	6.257	61319	4¾	6.007	61604	11½	13.510
61081	3½	4.631	61197	4⅞	5.004	61321	4¾	6.257	61621	12	14.010
61083	3½	4.756	61199	4⅞	5.256	61326	4⅞	6.007	62000	⅝	1.254
61085	3½	5.004	61201	4⅞	5.506	61328	4⅞	6.257	62001	1½	2.004
61090	3⅝	4.631	61203	4⅞	5.756	61333	4⅞	6.007	62002	1⅞	1.441
61092	3⅝	4.756	61205	4⅞	6.007	61335	4⅞	6.132	62003	⅞	1.379
61094	3⅝	4.881	61207	4⅞	6.257	61337	4⅞	6.257	62004	½	1.003
61095	3⅝	4.881	61212	4⅞	5.256	61342	4⅞	6.007	62005	1⅞	2.004
61096	3⅝	5.004	61214	4⅞	5.506	61344	4⅞	6.257	62006	1¼	2.254
61099	3⅝	5.756	61216	4⅞	5.756	61349	5	6.257	62007	1⅝	1.740
61101	3⅝	4.631	61218	4⅞	6.007	61350	5	6.507	62008	2⅝	3.153
61103	3⅝	4.756	61220	4⅞	6.257	61354	5⅞	6.382	62009	1⅞	2.972
61105	3⅝	4.881	61222	4⅞	6.256	61359	5¼	6.507	62010	1¾	2.441
61108	3⅝	5.004	61225	4¼	5.256	61364	5⅞	6.632	62011	2⅞	2.839
61109	3⅝	5.004	61227	4¼	5.381	61369	5¼	6.757	62012	¾	1.254
61112	3⅞	4.756	61229	4¼	5.506	61374	5⅞	6.882	62013	1⅞	2.627
61114	3⅞	4.881	61232	4¼	5.756	61379	5¼	7.008	62014	1⅞	2.784
61116	3⅞	5.004	61234	4¼	6.007	61384	5⅞	7.133	62015	1⅞	2.754
61117	3⅞	5.131	61235	4¼	6.132	61389	6	7.508	62016	1⅞	2.964
61121	3¾	4.756	61236	4¼	6.257	61394	6⅞	7.633	62018	2⅝	2.754
61123	3¾	4.881	61241	4⅞	5.506	61399	6¼	7.758	62019	1⅞	1.878
61125	3¾	5.004	61243	4⅞	5.756	61404	6⅞	7.883	62020	⅞	1.254
61127	3¾	5.256	61245	4⅞	6.007	61409	6½	8.009	62021	1⅞	1.568
61132	3⅞	4.631	61247	4⅞	6.257	61414	6⅞	8.134	62022	4⅞	6.007
61134	3⅞	4.756	61249	4⅞	6.007	61419	6¼	8.259	62023	1⅞	2.004
61136	3⅞	4.881	61252	4⅞	5.506	61424	6⅞	8.384	62024	1	1.503
61138	3⅞	5.004	61254	4⅞	5.756	61429	7	8.509	62025	4⅞	6.007
61140	3⅞	5.256	61256	4⅞	6.007	61430	7	8.509	62026	1	1.515
61145	3⅞	4.756	61257	4⅞	6.071	61434	7⅞	8.634	62027	⅞	1.503
61147	3⅞	4.881	61258	4⅞	6.257	61439	7¼	8.759	62028	1⅞	2.051
61150	3⅞	5.004	61263	4⅞	5.506	61444	7⅞	8.884	62029	2	2.721
61151	3⅞	5.256	61266	4⅞	5.756	61449	7½	9.010	62030	2⅞	3.489
61152	3⅞	5.131	61268	4⅞	6.007	61454	7⅞	9.135	62031	⅞	.754
61156	3⅞	4.881	61270	4⅞	6.257	61459	7¼	9.260	62032	¼	.754
61158	3⅞	5.004	61272	4.477	6.257	61464	7⅞	9.385	62033	1⅞	2.129

*See PROGRESSIVE SIZE Listing, pages 348 to 362 for HOUSING BORE Dimension and WIDTH.

NEED HELP ON BEARINGS—CALL US

VICTOPRENE OIL SEALS

NUMERICAL LISTING

VICTOR NO.	SHAFT DIA.	O.D. OF SEAL ±.002 *	VICTOR NO.	SHAFT DIA.	O.D. OF SEAL ±.002 *	VICTOR NO.	SHAFT DIA.	O.D. OF SEAL ±.002 *	VICTOR NO.	SHAFT DIA.	O.D. OF SEAL ±.002 *
62034	1½	2.196	63016	6½	8.009	63086	2¼	3.761	63172	¾	.756
62035	1¼	2.004	63017	3½	4.729	63087	4.818	6.578	63173	1	1.318
62036	2½	2.839	63018	1¾	2.004	63088	2¼	3.256	63174	3½	4.508
62037	1¾	2.196	63020	1¾	1.379	63089	1½	2.378	63175	1¾	2.756
62038	¾	.754	63021	1¾	1.690	63090	¾	.879	63177	3¼	4.132
62039	1¾	2.627	63022	¾	1.257	63091	¾	.755	63181	4¾	5.258
62040	½	1.128	63030	1½	2.129	63095	1¾	2.068	63184	¾	1.384
62041	½	.879	63031	1½	2.506	63098	1	1.253	63185	¾	1.004
62042	3½	4.756	63032	1¾	2.506	63099	1½	1.286	63186	2¾	3.066
62043	1½	2.627	63034	1¾	2.762	63100	1½	2.508	63187	1¼	1.977
62044	1	1.441	63035	1¾	3.005	63102	¾	1.193	63188	¾	1.253
62045	1¾	2.254	63036	2	3.001	63104	1½	1.880	63189	1¼	1.693
62046	¾	1.312	63037	2¼	2.879	63106	¾	.756	63191	¾	1.252
62047	3¼	4.130	63038	2¼	3.628	63107	2¾	3.355	63192	¾	1.376
62048	1¾	1.254	63039	2¼	3.762	63108	3	4.254	63193	2¾	3.070
62049	1¾	1.379	63040	2¾	3.355	63109	2¾	4.254	63194	1¾	2.171
62050	2¾	3.756	63041	2½	3.505	63110	2¾	3.756	63195	1¾	1.832
62051	¾	.754	63042	2½	3.548	63111	3¼	4.254	63197	2.607	3.354
62052	1¾	2.988	63043	2¾	3.881	63112	2¾	3.756	63199	4½	5.259
62053	1¾	2.000	63044	2¾	3.756	63113	1¾	2.627	63200	1¾	2.508
62054	2¼	2.879	63045	2¾	3.880	63114	2¾	3.628	63201	1¾	2.756
62055	1¼	1.756	63046	2¾	4.008	63115	2.057	3.312	63202	1¾	2.756
62056	6¾	7.507	63047	1¾	2.879	63116	1.745	2.843	63203	2¼	3.196
62057	6.450	7.256	63048	1¾	3.005	63118	¾	1.130	63204	1¾	2.112
62058	¾	1.128	63049	1¾	2.754	63122	¾	1.131	63205	2¾	4.175
62059	1¼	2.287	63050	1.780	2.749	63123	¾	1.006	63206	2¼	3.005
62060	1¾	2.286	63051	3.244	4.559	63129	1¾	2.756	63207	1¾	2.193
62061	¾	.910	63052	1¾	2.445	63131	¾	.501	63209	1¾	2.754
62062	2¼	3.447	63053	1¾	2.445	63132	¾	.626	63211	1¼	2.053
62063	6¾	7.757	63054	1¾	3.005	63134	¾	.568	63213	¼	.506
62064	8¾	10.011	63055	2¼	3.002	63138	1¾	2.718	63214	½	1.005
62066	1¾	2.754	63057	2	3.005	63139	¾	1.381	63215	1¾	1.131
62067	2	3.001	63058	2¾	3.486	63140	3.040	3.944	63216	1¾	2.629
62068	2¾	3.881	63060	1½	2.506	63142	1¾	1.569	63217	1¾	1.839
62069	1¼	2.066	63061	1¾	2.756	63143	3.432	4.686	63219	¾	1.130
62070	2¾	4.008	63062	½	.753	63144	¾	1.131	63221	1¼	2.508
62071	1¾	2.066	63063	1¾	.596	63146	2¼	3.132	63222	1¾	2.256
62072	8¼	10.260	63066	1¾	1.879	63148	¾	1.005	63223	1½	2.629
62073	1¾	2.286	63067	1¾	2.770	63150	¾	1.133	63224	1½	2.764
62074	1¾	2.258	63070	1¾	3.500	63156	¼	.505	63225	1¾	2.508
62075	1¾	2.690	63071	1¾	2.786	63157	½	.693	63226	2½	3.550
62076	¾	1.128	63072	2	2.770	63158	½	.756	63227	2½	3.507
62077	1¾	2.378	63073	2	2.886	63159	¾	.942	63228	1½	2.093
62078	1¾	2.754	63074	2¼	3.005	63160	¾	.881	63229	1¾	2.193
62079	1¾	2.378	63075	2¼	3.256	63161	¾	.818	63230	1¾	2.498
62080	4¼	5.256	63076	2¼	3.256	63162	¾	.506	63231	3¾	4.131
62081	1¼	2.129	63077	3¼	4.505	63163	¾	1.256	63232	¾	.754
62082	1¾	2.627	63078	1¾	2.546	63164	¾	.631	63233	1	1.567
62083	1¾	2.441	63079	1¾	2.984	63165	1	1.256	63234	1¾	2.840
63000	2¾	4.008	63080	1¾	3.174	63166	1¾	1.381	63237	4	5.006
63006	1½	2.004	63081	1¾	3.109	63167	1¾	1.567	63239	¾	.817
63011	¾	1.254	63082	1¾	3.504	63168	1¾	1.943	63242	¾	1.005
63012	5.375	6.703	63083	2¾	3.501	63169	1¼	1.505	63243	¾	1.256
63013	3	4.008	63084	2¾	3.194	63170	1¼	1.692	63246	4	5.006
63014	1	1.514	63085	2¼	3.255	63171	¼	.756	63247	2	3.002

*See PROGRESSIVE SIZE Listing, pages 348 to 362 for HOUSING BORE Dimension and WIDTH.

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VICTOPRENE OIL SEALS NUMERICAL LISTING

VICTOR NO.	SHAFT DIA.	O.D. OF SEAL ±.002 *	VICTOR NO.	SHAFT DIA.	O.D. OF SEAL ±.002 *	VICTOR NO.	SHAFT DIA.	O.D. OF SEAL ±.002 *	VICTOR NO.	SHAFT DIA.	O.D. OF SEAL ±.002 *
63251	1½	2.068	63308	1½½	2.378	63365	2½	3.628	63429	2½	3.005
63252	1½½	2.881	63309	1½	2.334	63366	2½	3.355	63430	2½	3.005
63253	½	1.162	63310	1½	2.334	63367	2½	3.505	63431	¾	1.003
63254	½	1.162	63311	1½	2.508	63368	2½	3.507	63432	3	4.010
63255	¾	1.253	63312	1½	2.629	63369	2½	3.550	63433	1½	2.131
63256	¾	1.257	63313	1½	2.627	63370	2.607	3.354	63434	1½	2.131
63257	¾	1.257	63314	1½	2.506	63371	2½	3.628	63435	1½	2.445
63259	¾	1.131	63315	1½	2.508	63372	2½	3.756	63436	1½	2.508
63260	¾	1.256	63316	1½	2.340	63373	2½	4.175	63437	1½	2.508
63261	¾	1.131	63317	1½	2.455	63374	3	3.887	63440	1½	1.943
63262	¾	1.131	63318	1½	3.066	63375	3	3.887	63442	1½	2.629
63263	¾	1.131	63319	1½	2.441	63376	3.040	3.944	63444	1½	2.006
63264	¾	1.255	63320	1½	2.441	63377	3½	4.254	63447	¾	1.259
63265	¾	1.255	63321	1½	2.445	63378	3½	4.254	63448	¾	1.505
63266	¾	1.252	63322	1½	2.455	63379	3½	4.254	63449	1½	2.068
63267	.742	1.070	63323	1½	2.455	63380	3½	5.004	63456	½	.879
63268	¾	1.381	63324	1½	2.508	63381	3½	4.506	63457	1	1.568
63269	¾	1.376	63325	1½	2.721	63382	3½	4.506	63458	1½	2.381
63270	¾	1.384	63326	1½	2.721	63383	3½	4.508	63459	2	3.007
63271	¾	1.565	63327	1½	2.754	63384	3½	4.756	63460	2½	3.758
63272	1	1.567	63328	1½	2.754	63385	3½	4.757	63461	3	4.508
63273	1½	1.839	63329	1½	2.815	63386	3½	4.757	63462	¾	1.256
63274	1½	2.066	63330	1½	2.815	63387	3½	4.756	63463	¾	1.256
63275	1½	2.112	63331	1½	2.874	63388	3½	5.004	63464	¾	1.383
63276	1½	2.840	63332	1½	2.874	63389	3½	4.506	63465	¾	1.383
63277	1½	1.693	63333	1½	2.879	63390	3½	4.631	63466	¾	1.259
63278	1½	2.004	63335	1½	2.848	63391	3½	5.004	63467	¾	1.505
63279	1½	2.053	63336	1½	2.756	63392	4	5.006	63468	1½	2.068
63280	1½	1.630	63337	1½	2.730	63393	4½	5.258	63469	1½	1.943
63281	1½	1.832	63338	1½	2.878	63394	4½	5.259	63470	1½	2.378
63282	1½½	2.110	63339	1.870	3.001	63395	4.603	6.258	63471	1½	2.378
63284	1½	2.129	63340	1½	2.498	63396	5	6.007	63472	1½	2.441
63285	1½	2.171	63341	1½	3.000	63397	5	6.007	63473	1½	2.441
63286	1½	2.690	63342	1½	2.403	63398	5½	6.632	63474	1½	2.629
63287	1½	2.839	63343	1½	2.403	63399	5½	6.632	63475	1½	2.445
63288	1½	2.068	63344	1½	2.506	63400	3½	4.132	63476	1½	2.340
63289	1½	2.068	63345	1½	2.508	63402	3.872	6.062	63477	1½	2.754
63290	1½	2.068	63346	1½	2.508	63405	1½	2.068	63478	1½	2.006
63291	1½	2.256	63347	1½	2.690	63406	¾	1.005	63479	1½	1.756
63292	1½	2.441	63348	1½	2.690	63407	¾	1.005	63480	1½	1.756
63293	1½½	2.254	63349	1½	2.879	63408	¾	1.005	63481	3½	3.955
63294	1½	1.956	63350	1½	3.196	63409	¾	1.005	63487	¾	.691
63295	1½	1.956	63351	2	2.754	63410	1½	2.508	63493	1	1.834
63296	1½	2.002	63352	2	3.002	63411	1½	2.508	63494	1	1.834
63297	1½	2.093	63353	2	3.110	63412	1½	2.506	63495	¾	1.788
63298	1½	2.254	63354	2½	2.885	63413	2½	3.130	63496	¾	1.788
63299	1½	2.378	63355	2½	2.885	63414	2½	3.130	63497	1½	2.380
63300	1½	2.380	63357	2½	3.196	63415	3½	4.504	63498	1½	2.380
63301	1½	2.380	63358	2½	3.357	63419	1½	2.750	63499	1½	2.381
63302	1½	2.381	63359	2½	3.132	63420	3	4.010	63500	2	3.007
63303	1½	2.381	63360	2½	3.194	63424	4	5.006	63501	2	3.356
63304	1½	2.445	63361	2½	3.256	63425	2½	3.883	63502	2	3.356
63305	1½	2.508	63362	2½	3.355	63426	2½	3.883	63503	2½	3.758
63306	1½	2.629	63363	2½	4.013	63427	3½	4.381	63504	3	4.508
63307	1½	2.764	63364	2½	3.256	63428	3½	4.381	63505	3½	3.955

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VICTOPRENE OIL SEALS

NUMERICAL LISTING

VICTOR NO.	SHAFT DIA.	O.D. OF SEAL ±.002 *	VICTOR NO.	SHAFT DIA.	O.D. OF SEAL ±.002 *	VICTOR NO.	SHAFT DIA.	O.D. OF SEAL ±.002 *	VICTOR NO.	SHAFT DIA.	O.D. OF SEAL ±.002 *
63506	3 $\frac{1}{8}$	4.761	63581	1 $\frac{1}{8}$	2.006	63656	1 $\frac{1}{8}$	2.068	64247	1	1.630
63507	5 $\frac{1}{2}$	6.257	63582	1 $\frac{1}{8}$	2.565	63657	1 $\frac{1}{8}$	2.035	64250	1	1.758
63509	3 $\frac{1}{2}$	1.581	63583	2 $\frac{1}{4}$	3.258	63658	1 $\frac{1}{8}$	2.035	64252	1	1.834
63514	3 $\frac{1}{8}$	1.003	63584	2 $\frac{1}{4}$	3.258	63659	1 $\frac{1}{2}$	2.727	64254	1	1.880
63517	3 $\frac{1}{8}$	.568	63585	3 $\frac{1}{8}$	1.005	64001	3 $\frac{1}{8}$	.756	64258	1	2.006
63518	1 $\frac{3}{8}$	2.723	63586	1 $\frac{3}{8}$	2.839	64010	3 $\frac{1}{8}$	1.005	64261	1	2.068
63519	1	2.447	63587	1 $\frac{3}{8}$	2.839	64012	3 $\frac{1}{8}$	1.130	64267	1 $\frac{1}{2}$	1.630
63520	1 $\frac{1}{8}$	2.447	63588	1 $\frac{3}{8}$	1.692	64014	3 $\frac{1}{8}$	1.256	64269	1 $\frac{1}{2}$	1.758
63524	3 $\frac{1}{8}$	.814	63589	1 $\frac{3}{8}$	1.692	64016	3 $\frac{1}{8}$	1.505	64272	1 $\frac{1}{2}$	1.834
63529	3 $\frac{1}{8}$	1.630	63590	3 $\frac{1}{8}$	5.695	64030	3 $\frac{1}{8}$	1.005	64273	1 $\frac{1}{2}$	1.880
						64033	3 $\frac{1}{8}$	1.130			
63532	3 $\frac{1}{8}$	1.003	63591	3 $\frac{1}{8}$	4.506	64034	3 $\frac{1}{8}$	1.256	64277	1 $\frac{1}{2}$	2.006
63537	1 $\frac{1}{2}$	2.441	63592	4 $\frac{1}{2}$	6.257	64047	3 $\frac{1}{8}$	1.005	64284	1 $\frac{1}{8}$	1.630
63538	1 $\frac{1}{8}$	3.005	63593	10	11.010	64051	1 $\frac{1}{2}$	1.005	64285	1 $\frac{1}{8}$	1.692
63539	1 $\frac{3}{8}$	2.380	63594	3 $\frac{1}{8}$	5.131	64055	1 $\frac{1}{2}$	1.130	64286	1 $\frac{1}{8}$	1.758
63540	1 $\frac{3}{8}$	2.380	63595	1 $\frac{1}{4}$	1.754	64057	1 $\frac{1}{2}$	1.256	64288	1 $\frac{1}{8}$	1.834
63541	1 $\frac{3}{8}$	2.112	63596	3 $\frac{1}{8}$	1.630	64060	1 $\frac{1}{2}$	1.381	64290	1 $\frac{1}{8}$	1.880
63542	1 $\frac{3}{8}$	2.112	63597	3 $\frac{1}{2}$	1.581	64076	3 $\frac{1}{8}$	1.005	64295	1 $\frac{1}{8}$	2.006
63543	1 $\frac{1}{2}$	2.690	63598	1 $\frac{3}{8}$	2.723	64078	3 $\frac{1}{8}$	1.130	64314	1 $\frac{1}{8}$	1.567
63544	1 $\frac{1}{4}$	1.691	63599	1	2.447	64080	3 $\frac{1}{8}$	1.256	64315	1 $\frac{1}{8}$	1.630
63545	1 $\frac{1}{4}$	1.691	63600	1 $\frac{1}{4}$	2.447	64082	3 $\frac{1}{8}$	1.381	64318	1 $\frac{1}{8}$	1.834
63546	1 $\frac{1}{8}$	2.506	63601	1 $\frac{1}{4}$	1.754	64087	1 $\frac{1}{2}$	1.130	64320	1 $\frac{1}{8}$	1.879
63547	1 $\frac{1}{8}$	2.506	63602	1 $\frac{1}{4}$	1.754	64089	1 $\frac{1}{2}$	1.256	64324	1 $\frac{1}{8}$	2.006
63548	3 $\frac{1}{4}$	1.379	63603	3 $\frac{1}{8}$	1.005	64091	1 $\frac{1}{2}$	1.381	64326	1 $\frac{1}{8}$	2.068
63549	3 $\frac{1}{4}$	1.379	63604	3 $\frac{1}{8}$	1.005	64096	3 $\frac{1}{8}$	1.128	64346	1 $\frac{1}{8}$	1.880
63550	1 $\frac{1}{2}$	2.256	63605	2 $\frac{3}{8}$	3.758	64098	3 $\frac{1}{8}$	1.256	64347	1 $\frac{1}{8}$	1.989
63551	1 $\frac{1}{2}$	2.256	63606	2 $\frac{3}{8}$	3.758	64101	3 $\frac{1}{8}$	1.379	64348	1 $\frac{1}{8}$	1.943
63552	1 $\frac{1}{8}$	2.829	63607	1 $\frac{1}{8}$	2.580	64109	1 $\frac{1}{8}$	1.256	64349	1 $\frac{1}{8}$	2.006
63553	1 $\frac{1}{4}$	2.629	63608	6	6.757	64110	1 $\frac{1}{8}$	1.266	64353	1 $\frac{1}{8}$	2.068
63554	1 $\frac{1}{4}$	2.629	63609	1 $\frac{1}{8}$	2.068	64111	1 $\frac{1}{8}$	1.381	64374	1 $\frac{1}{2}$	2.068
63555	1 $\frac{1}{2}$	2.258	63612	1 $\frac{1}{8}$	2.881	64113	1 $\frac{1}{8}$	1.505	64382	1 $\frac{1}{4}$	1.692
63556	1 $\frac{1}{2}$	2.258	63620	3	4.008	64126	3 $\frac{1}{4}$	1.256	64385	1 $\frac{1}{4}$	1.881
63557	2 $\frac{1}{4}$	3.758	63621	3 $\frac{1}{4}$	1.503	64135	3 $\frac{1}{4}$	1.381	64395	1 $\frac{1}{4}$	2.131
63558	2 $\frac{1}{4}$	3.758	63622	1 $\frac{1}{2}$	2.004	64137	3 $\frac{1}{4}$	1.505	64405	1 $\frac{1}{2}$	2.006
63559	3 $\frac{1}{8}$	4.132	63623	1 $\frac{1}{8}$	2.004	64139	3 $\frac{1}{4}$	1.581	64446	1 $\frac{1}{8}$	1.834
63560	3 $\frac{1}{8}$	4.132	63624	1 $\frac{1}{8}$	2.627	64140	3 $\frac{1}{4}$	1.630	64448	1 $\frac{1}{8}$	1.880
63561	3 $\frac{1}{8}$	4.256	63625	2 $\frac{1}{4}$	3.130	64142	3 $\frac{1}{4}$	1.758	64454	1 $\frac{1}{8}$	2.131
63562	3 $\frac{1}{8}$	4.256	63635	1 $\frac{1}{2}$	2.727	64144	3 $\frac{1}{4}$	1.834	64477	1 $\frac{1}{8}$	2.256
63563	3 $\frac{1}{2}$	1.989	63637	3 $\frac{1}{8}$	1.258	64162	1 $\frac{1}{8}$	1.381	64494	1 $\frac{1}{2}$	1.989
63564	3 $\frac{1}{2}$	1.989	63638	1 $\frac{1}{4}$	1.690	64166	1 $\frac{1}{8}$	1.505	64496	1 $\frac{1}{2}$	2.006
63565	1 $\frac{1}{2}$	2.378	63639	1 $\frac{1}{4}$	1.690	64168	1 $\frac{1}{8}$	1.630	64500	1 $\frac{1}{2}$	2.380
63566	1 $\frac{1}{2}$	2.378	63640	1 $\frac{1}{8}$	2.254	64170	1 $\frac{1}{8}$	1.758	64560	1 $\frac{1}{8}$	2.131
63567	1 $\frac{1}{8}$	2.841	63641	1 $\frac{1}{8}$	2.254	64172	1 $\frac{1}{8}$	1.834	64562	1 $\frac{1}{8}$	2.380
63568	1 $\frac{1}{8}$	2.841	63642	1 $\frac{1}{8}$	2.762	64191	3 $\frac{1}{8}$	1.314	64574	1 $\frac{1}{8}$	2.756
63569	1 $\frac{1}{2}$	1.989	63643	4 $\frac{1}{2}$	5.756	64193	3 $\frac{1}{8}$	1.381	64601	1 $\frac{1}{8}$	2.285
63570	1 $\frac{1}{2}$	1.989	63644	7 $\frac{1}{2}$	8.509	64195	3 $\frac{1}{8}$	1.443	64605	1 $\frac{1}{8}$	2.629
63571	2 $\frac{1}{2}$	3.376	63645	1 $\frac{1}{2}$	1.068	64196	3 $\frac{1}{8}$	1.505	64635	1 $\frac{1}{4}$	2.256
63572	2 $\frac{1}{2}$	3.376	63646	1 $\frac{1}{2}$	1.068	64197	3 $\frac{1}{8}$	1.568	64636	1 $\frac{1}{4}$	2.380
63573	3 $\frac{1}{2}$	1.834	63647	3 $\frac{1}{8}$	1.254	64199	3 $\frac{1}{8}$	1.581	64638	1 $\frac{1}{4}$	2.508
63574	3 $\frac{1}{2}$	1.834	63648	3 $\frac{1}{8}$	1.254	64200	3 $\frac{1}{8}$	1.630	64646	1 $\frac{1}{4}$	2.756
63575	2 $\frac{1}{4}$	3.355	63649	1 $\frac{1}{8}$	2.508	64202	3 $\frac{1}{8}$	1.758	64735	1 $\frac{1}{8}$	2.875
63576	1 $\frac{3}{4}$	2.506	63650	1 $\frac{1}{8}$	2.508	64204	3 $\frac{1}{8}$	1.834	64780	2	2.508
63577	2 $\frac{1}{2}$	3.376	63651	1 $\frac{1}{8}$	1.878	64205	3 $\frac{1}{8}$	1.880	64794	2	3.007
63578	2	2.750	63652	1 $\frac{1}{8}$	1.878	64222	1 $\frac{1}{8}$	1.505	65001	3 $\frac{1}{8}$	.756
63579	2	2.750	63653	1 $\frac{1}{4}$	2.378	64242	1	1.443	65010	3 $\frac{1}{8}$	1.005
63580	1 $\frac{1}{4}$	2.006	63654	1 $\frac{1}{4}$	2.378	64245	1	1.505	65012	3 $\frac{1}{8}$	1.130

*See PROGRESSIVE SIZE Listing, pages 348 to 362 for HOUSING BORE Dimension and WIDTH.

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VICTOPRENE OIL SEALS NUMERICAL LISTING

VICTOR NO.	SHAFT DIA.	O.D. OF SEAL ±.002 *	VICTOR NO.	SHAFT DIA.	O.D. OF SEAL ±.002 *	VICTOR NO.	SHAFT DIA.	O.D. OF SEAL ±.002 *	VICTOR NO.	SHAFT DIA.	O.D. OF SEAL ±.002 *
65014	3/8	1.256	65197	7/8	1.568	65385	1 1/4	1.881	67126	3/4	1.256
65016	3/8	1.505	65199	7/8	1.581	65395	1 1/4	2.131	67135	3/4	1.381
65030	7/16	1.005	65200	7/8	1.630	65405	1 1/32	2.006	67140	3/4	1.630
65033	7/16	1.130	65202	7/8	1.758	65446	1 1/8	1.834	67193	7/8	1.381
65034	7/16	1.256	65204	7/8	1.834	65448	1 1/8	1.880	67196	7/8	1.505
65047	.437	1.005	65205	7/8	1.880	65454	1 1/8	2.131	62742	1	1.443
65051	1/2	1.005	65222	1 1/16	1.505	65477	1 1/8	2.256	67245	1	1.505
65055	1/2	1.130	65242	1	1.443	65494	1 1/2	1.989	67247	1	1.630
65057	1/2	1.256	65245	1	1.505	65496	1 1/2	2.006	67318	1 1/8	1.834
65060	1/2	1.381	65247	1	1.630	65500	1 1/2	2.380	67350	1 1/8	2.052
65076	3/8	1.005	65250	1	1.758	65560	1 1/8	2.131	67446	1 1/8	1.834
65078	3/8	1.130	65252	1	1.834	65562	1 1/8	2.380	67462	1 1/8	2.447
65080	3/8	1.256	65254	1	1.880	65574	1 1/8	2.756			
65082	3/8	1.381	65258	1	2.006	65601	1 1/16	2.285			
65087	1 1/32	1.130	65261	1	2.068	65605	1 1/16	2.629			
65089	1 1/32	1.256	65267	1 1/32	1.630	65635	1 1/4	2.256			
65091	1 1/32	1.381	65269	1 1/32	1.758	65636	1 1/4	2.380			
65096	3/8	1.130	65272	1 1/32	1.834	65638	1 1/4	2.508			
65098	3/8	1.256	65273	1 1/32	1.880	65646	1 1/4	2.756			
65101	3/8	1.379	65277	1 1/32	2.006	65735	1 1/8	2.875			
65109	1 1/16	1.256	65284	1 1/8	1.630	65780	2	2.508			
65110	1 1/16	1.266	65285	1 1/8	1.692	65794	2	3.007			
65111	1 1/16	1.381	65286	1 1/8	1.758	66051	1/2	1.005			
65113	1 1/16	1.505	65288	1 1/8	1.834	66101	3/8	1.381			
65126	3/4	1.256	65290	1 1/8	1.880	66125	3/4	1.256			
65135	3/4	1.381	65295	1 1/8	2.006	66126	3/4	1.256			
65137	3/4	1.505	65312	1 1/8	1.506	66135	3/4	1.381			
65139	3/4	1.581	65314	1 1/8	1.567	66140	3/4	1.630			
65140	3/4	1.630	65315	1 1/8	1.630	66193	3/8	1.381			
65142	3/4	1.758	65318	1 1/8	1.834	66196	7/8	1.505			
65144	3/4	1.834	65320	1 1/8	1.879	66242	1	1.443			
65162	1 1/16	1.381	65324	1 1/8	2.006	66245	1	1.505			
65166	1 1/16	1.505	65326	1 1/8	2.068	66247	1	1.630			
65168	1 1/16	1.630	65346	1 1/8	1.880	66318	1 1/8	1.834			
65170	1 1/16	1.758	65347	1 1/8	1.989	66350	1 1/8	2.052			
65172	1 1/16	1.834	65348	1 1/8	1.943	66446	1 1/8	1.834			
65191	7/8	1.314	65349	1 1/8	2.006	66462	1 1/8	2.447			
65193	7/8	1.381	65353	1 1/8	2.068	67051	1/2	1.005			
65195	7/8	1.443	65374	1 1/32	2.068	67101	3/8	1.381			
65196	7/8	1.505	65382	1 1/4	1.692	67125	3/4	1.256			

*See PROGRESSIVE SIZE Listing, pages 348 to 362 for HOUSING BORE Dimension and WIDTH.

SHAFT SURFACE CONDITIONS

For long seal life and effective sealing a smooth hard surface should be provided on the area of the shaft in contact with the sealing member.

A soft shaft will groove thus disturbing the proper shaft to seal relationship for effective sealing. Shafts having grinding or turning spirals, scratches, nicks or rough surfaces may decrease seal life.

As shaft speed increases, the necessity of maintaining proper shaft finish becomes more important.

For best results, the shaft surface should have a hardness of 30 or higher on the Rockwell "C" scale.

A surface finish of 10 to 20 RMS gives best results. Finishes below 10 RMS or above 30 RMS should be avoided.

VICTOPRENE OIL SEALS**Application Recommendations for Victoprene Seal Designs****SEALS OF BASIC SINGLE LIP DESIGN****RECOMMENDED MAXIMUM SHAFT SPEED AND TEMPERATURE CONDITIONS**

 VICTOR SEAL	MAX. RECOMMENDED PRESSURE	3500 FPM	3500 FPM	2000 FPM	1000 FPM
		275° to 325°	225° to 275°	225° Max.	225° Max.
 K	10	X	X	X	X
 K15	10	X	X	X	X
 K5	10	X	X	X	X
 K3	10		X	X	X
 K30	10			X	X
 K31	5			X	X
 K50	10			X	X
 K51	5			X	X
 K150	10			X	X
 H	15			X	X
 W	35				X

NEED HELP ON BEARINGS—CALL US

VICTOPRENE OIL SEALS**SEALS OF DOUBLE LIP DESIGN with features for exclusion of foreign matter****RECOMMENDED MAXIMUM SHAFT SPEED AND TEMPERATURE CONDITIONS**

VICTOR SEAL	MAX. RECOMMENDED PRESSURE	3500 FPM	3500 FPM	2000 FPM	1000 FPM
		275° to 325°	225° to 275°	225° Max.	225° Max.
 K6	10	X	X	X	X
 K61	10		X	X	X
 K60	10		X	X	X
 K4	10	X	X	X	X
 K41	10			X	X
 K40	10		X	X	X
 K3F	10		X	X	X
 KF	10		X	X	X
 KW	10		X	X	X
 HF	15			X	X
 HW	15			X	X

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VICTOPRENE OIL SEALS

ANALYSIS OF OIL LEAKAGE

POSSIBLE CAUSE OF LEAKAGE	CORRECTION
Seal shell distorted at installation.	Use properly designed pressing tools. (See Installation Instructions).
Seal lip damaged in installing.	Use properly designed thimble. (See Installation Instructions).
Sealing lips dirty or damaged from careless handling in storage or even after pressing into flanges, particularly when in transit to production line.	Keep seal packages as received completely sealed against dirt and grit. Store sub-assemblies which include seals carefully and cover tote box with heavy paper to keep out scale and cinders.
Seals forced into undersize bore. This results in lip distortion.	Measure bore. It should not be more than plus or minus .001 of recommended bore—(See catalog listing).
Seal used is for a larger shaft because correct size not available.	Shaft must not be more than .010" below catalog size shown for this seal.
Seal used is for a smaller shaft.	If shaft exceeds .005" over that recommended for seal, overheating will result.
Shaft eccentricity is high.	For spring loaded seals do not exceed .008 total indicator reading and less for the high surface speeds. For Type "W" do not exceed a T.I.R. of .015".
Appearance of leakage due to applied grease melting and running out.	Use less grease or be certain leakage is not due to initial run in.
Painting often causes particles of paint to splash on shaft at sealing lip or on sealing lip.	Mask these areas before painting.
Paint closes vent plugs which allows a serious pressure build-up in housing.	Mask these areas before painting.
Oil leakage past seal O.D.	Caused by (a) cocked seal. (Install correctly) or (b) seal O.D. too small for bore. (Use suitable size seal or bushing) or (c) lack of a sealer cement between O.D. and bore. (Use small amount only of suitable cement).
Shaft too coarsely ground—seal wears.	Finish to smoothness of 20 to 30 micro inches.
Shaft upon close examination shows dents or scratches at sealing contact surface.	Remove dents and scratches by polishing with crocus cloth.
Shaft shows grinding spirals through which fluid works out under lip.	Polish with crocus cloth so there is no spiral lead.
Rapid wear of shaft due to soft steel used.	Shaft should be hardened to 30, preferably 40 Rockwell C scale.

BEARHUG SELF-LOCKING BEARING NUTS

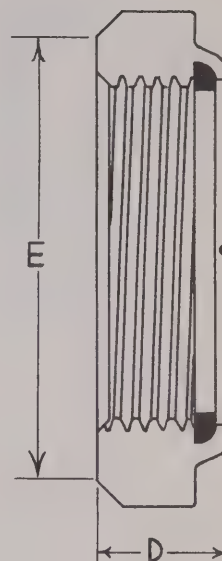
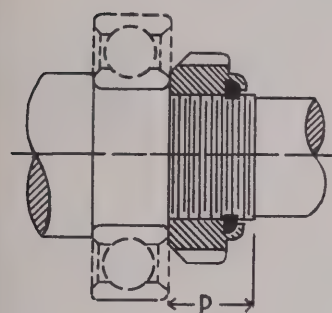
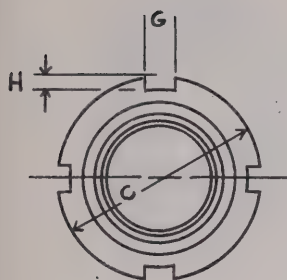
Bearhug Locknuts are used to retain anti-friction precision bearings on spindles and shafts.

SELF-LOCKING. The locking elastic collar in Bearhug nut is compressed, not cut, by spindle threads. This guarantees a tight permanent grip on thread flanks regardless of axial load and rotating speed of spindle. No lock washers or keyways are necessary. Non-metallic elastic locking collar of Bearhug allows removal and re-installation of nut up to ten times without loss of adequate locking torque.

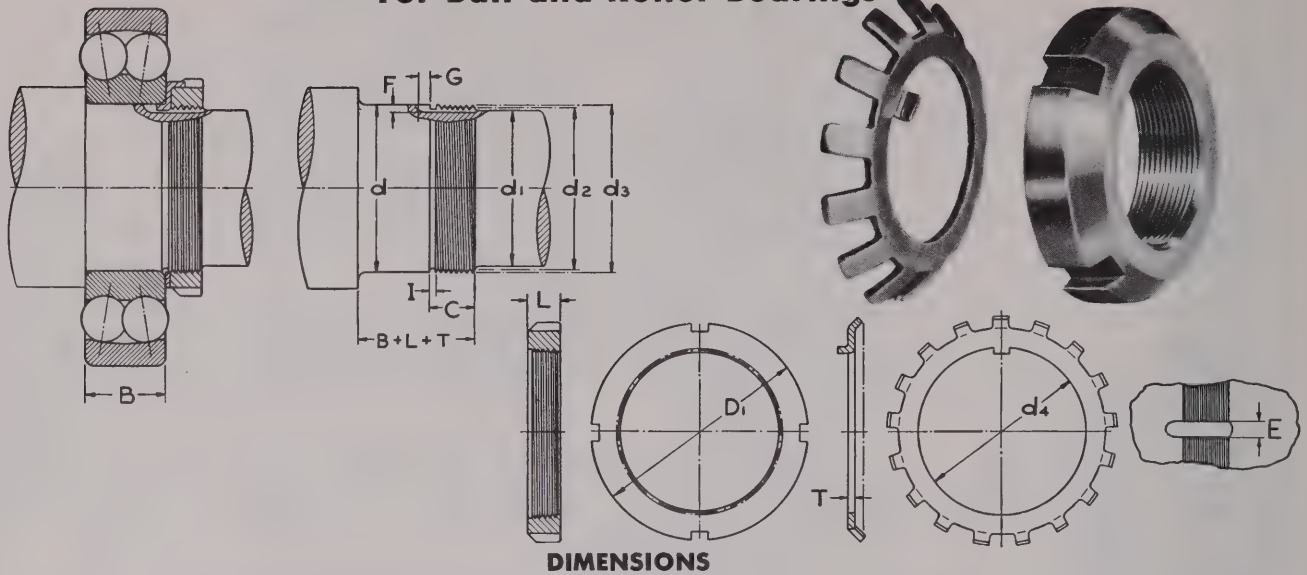
ACCURATE ADJUSTMENT. Bearhug's elastic collar locks nut to spindle when desired bearing adjustment has been made. This exclusive feature allows precision adjustments not possible with conventional locking devices.

PRECISION GRADE. Bearhug is guaranteed to have a face runout of not more than .0005" full indicator reading in sizes through BL-N-18; and .001" full indicator reading in larger sizes.

COMMERCIAL GRADE. Commercial Bearhug Locknuts are available in smaller sizes for general bearing applications where face runout is less critical.



NUMBER	Out-side C	Thick-ness D	Face E	Slot		P	Shaft Thread				Nut	
				G	H		Major Diameter		Pitch Diameter		Major Dia. MIN.	Thd. Per In.
							MIN.	MAX.	MIN.	MAX.		
BL-N-00	3/4	17/64	5/8	1/8	1/16	9/32	.387	0.391	0.3681	0.3707	0.391	32
BL-N-01	7/8	23/64	23/32	1/8	1/16	3/8	.465	0.469	0.4461	0.4487	0.469	32
BL-N-02	1	23/64	13/16	1/8	3/32	3/8	.582	0.586	0.5627	0.5657	0.586	32
BL-N-03	1 1/8	25/64	15/16	1/8	3/32	13/32	.660	0.664	0.6407	0.6437	0.664	32
BL-N-04	1 3/8	27/64	1 1/8	3/16	3/32	7/16	.777	0.781	0.7573	0.7607	0.781	32
BL-N-05	1 9/16	29/64	1 9/32	3/16	3/32	15/32	.965	0.969	0.9453	0.9487	0.969	32
BL-N-06	1 3/4	29/64	1 1/2	3/16	3/32	15/32	1.168	1.173	1.1329	1.1369	1.173	18
BL-N-065	2 1/16	31/64	1 13/16	3/16	3/32	5/8	1.307	1.3125	1.2724	1.2764	1.3125	18
BL-N-07	2 1/16	31/64	1 13/16	3/16	3/32	1/2	1.371	1.376	1.3359	1.3399	1.376	18
BL-N-08	2 1/4	1/2	2	1/4	3/32	17/32	1.558	1.563	1.5224	1.5269	1.563	18
BL-N-09	2 17/32	1/2	2 9/32	1/4	3/32	17/32	1.762	1.767	1.7264	1.7309	1.767	18
BL-N-10	2 11/16	9/16	2 7/16	1/4	3/32	19/32	1.962	1.967	1.9264	1.9309	1.967	18
BL-N-11	2 31/32	9/16	2 21/32	1/4	1/8	19/32	2.152	2.157	2.1158	2.1209	2.157	18
BL-N-12	3 5/32	19/32	2 27/32	1/4	1/8	5/8	2.355	2.360	2.3188	2.3239	2.360	18
BL-N-13	3 3/8	5/8	3 1/16	1/4	1/8	21/32	2.543	2.548	2.5068	2.5119	2.548	18
BL-N-14	3 5/8	5/8	3 5/16	1/4	1/8	21/32	2.746	2.751	2.7098	2.7149	2.751	18
BL-AN-15	3 7/8	43/64	3 9/16	3/8	1/8	11/16	2.927	2.9330	2.8735	2.8789	2.9330	12
BL-AN-16	4 5/8	43/64	3 27/32	3/8	1/8	11/16	3.131	3.1370	3.0770	3.0829	3.1370	12
BL-AN-17	4 13/32	45/64	4 1/32	3/8	5/32	23/32	3.334	3.3400	3.2785	3.2859	3.3400	12
BL-AN-18	4 21/32	25/32	4 9/32	3/8	5/32	13/16	3.521	3.5270	3.4655	3.4729	3.5270	12
BL-AN-19	4 15/16	13/16	4 9/16	3/8	5/32	27/32	3.724	3.7300	3.6685	3.6759	3.7300	12
BL-8-AN-20	5 3/16	27/32	4 13/16	3/8	5/32	7/8	3.912	3.9180	3.8565	3.8639	3.9180	12
BL-8-AN-21	5 7/16	27/32	5	1/2	3/16	7/8	4.116	4.1220	4.0596	4.0679	4.1220	12
BL-8-AN-22	5 23/32	59/64	5 9/32	1/2	3/16	29/32	4.319	4.3250	4.2626	4.2709	4.3250	12
BL-8-AN-24	6 1/8	15/16	5 11/16	1/2	3/16	15/16	4.710	4.7160	4.6536	4.6619	4.7160	12
BL-8-AN-26	6 3/4	1	6 3/16	5/8	1/4	1	5.100	5.1060	5.0436	5.0519	5.1060	12
BL-8-AN-28	7 3/32	1 1/16	6 17/32	5/8	1/4	1 1/16	5.491	5.4970	5.4346	5.4429	5.4970	12
BL-8-AN-30	7 11/16	1 1/8	7 1/16	5/8	9/32	1 1/8	5.882	5.8880	5.8256	5.8339	5.8880	12
BL-8-AN-32	8 1/16	1 3/16	7 7/16	5/8	9/32	1 3/16	6.277	6.2840	6.1937	6.2028	6.2840	8
BL-8-AN-34	8 21/32	1 7/32	8 1/32	5/8	9/32	1 7/32	6.652	6.6590	6.5687	6.5778	6.6590	8
BL-8-AN-36	9 1/16	1 1/4	8 3/8	3/4	5/16	1 1/4	7.059	7.0660	6.9757	6.9848	7.0660	8
BL-8-AN-38	9 15/32	1 9/32	8 25/32	3/4	5/16	1 9/32	7.465	7.4720	7.3817	7.3908	7.4720	8
BL-8-AN-40	9 27/32	1 11/32	9 5/32	3/4	5/16	1 11/32	7.840	7.8470	7.7544	7.7658	7.8470	8

SHAFT LOCKNUTS AND LOCKWASHERS**For Ball and Roller Bearings****DIMENSIONS**

Bear- ing Size	Lock- nut No.	Lock- washer No.	Shaft Dimensions												Locknut Dim.		Lockwasher Dim.		
			d*		d3 Thread O.D.		d2 Thread Pitch Diam.		Thds. Per Inch	d1 Exten- sion Diam. Max.	C in.	G in.	I in.	E in.	F in.	D1 in.	L in.	T in.	d4 in.
			mm.	in.	Max.	Tol. + .0000	Max.	Tol. + .0000											
00	N 00	W 00	10	.3937	.391	— .0054	.3707	— .0026	32	$\frac{5}{16}$	$\frac{9}{32}$	$\frac{3}{32}$	$\frac{1}{16}$	$\frac{1}{8}$	$\frac{1}{16}$	$\frac{3}{4}$	$\frac{7}{32}$	.042	.411
01	N 01	W 01	12	.4724	.469	— .0054	.4487	— .0026	32	$\frac{13}{32}$	$\frac{3}{8}$	$\frac{3}{32}$	$\frac{1}{16}$	$\frac{1}{8}$	$\frac{1}{16}$	$\frac{7}{8}$	$\frac{5}{16}$	.042	.489
02	N 02	W 02	15	.5906	.586	— .0054	.5657	— .0030	32	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{3}{32}$	$\frac{1}{16}$	$\frac{1}{8}$	$\frac{3}{32}$	1	$\frac{5}{16}$	.042	.606
03	N 03	W 03	17	.6693	.664	— .0054	.6437	— .0030	32	$\frac{9}{16}$	$\frac{13}{32}$	$\frac{3}{32}$	$\frac{1}{16}$	$\frac{1}{8}$	$\frac{3}{32}$	$1\frac{1}{8}$	$\frac{11}{32}$	.042	.684
04	N 04	W 04	20	.7874	.781	— .0054	.7607	— .0034	32	$\frac{23}{32}$	$\frac{7}{16}$	$\frac{3}{32}$	$\frac{1}{16}$	$\frac{3}{16}$	$\frac{5}{32}$	$1\frac{3}{8}$	$\frac{3}{8}$	.042	.811
05	N 05	W 05	25	.9843	.969	— .0054	.9487	— .0034	32	$\frac{7}{8}$	$\frac{15}{32}$	$\frac{1}{8}$	$\frac{1}{16}$	$\frac{3}{16}$	$\frac{3}{32}$	$1\frac{9}{16}$	$\frac{13}{32}$	.050	1.000
06	N 06	W 06	30	1.1811	1.173	— .0082	1.1369	— .0040	18	$\frac{11}{16}$	$\frac{15}{32}$	$\frac{1}{8}$	$\frac{1}{16}$	$\frac{3}{16}$	$\frac{3}{32}$	$1\frac{3}{4}$	$\frac{13}{32}$	.050	1.199
07	N 07	W 07	35	1.3780	1.376	— .0082	1.3399	— .0040	18	$1\frac{1}{4}$	$\frac{1}{2}$	$\frac{1}{8}$	$\frac{1}{16}$	$\frac{3}{16}$	$\frac{3}{32}$	$2\frac{1}{16}$	$\frac{7}{16}$	.050	1.407
08	N 08	W 08	40	1.5748	1.563	— .0082	1.5269	— .0045	18	$1\frac{15}{32}$	$\frac{17}{32}$	$\frac{1}{8}$	$\frac{1}{16}$	$\frac{5}{16}$	$\frac{3}{32}$	$2\frac{1}{4}$	$\frac{7}{16}$	.058	$1\frac{5}{8}$
09	N 09	W 09	45	1.7717	1.767	— .0082	1.7309	— .0045	18	$1\frac{11}{16}$	$\frac{17}{32}$	$\frac{5}{32}$	$\frac{1}{8}$	$\frac{5}{16}$	$\frac{3}{32}$	$2\frac{17}{32}$	$\frac{7}{16}$	.058	$1\frac{11}{16}$
10	N 10	W 10	50	1.9685	1.967	— .0082	1.9309	— .0045	18	$1\frac{7}{8}$	$\frac{19}{32}$	$\frac{5}{32}$	$\frac{1}{8}$	$\frac{5}{16}$	$\frac{3}{32}$	$2\frac{11}{16}$	$\frac{1}{2}$	.058	2
11	N 11	W 11	55	2.1654	2.157	— .0082	2.1209	— .0051	18	$2\frac{1}{16}$	$\frac{19}{32}$	$\frac{5}{32}$	$\frac{1}{8}$	$\frac{5}{16}$	$\frac{1}{8}$	$2\frac{13}{32}$	$\frac{1}{2}$	.063	$2\frac{3}{16}$
12	N 12	W 12	60	2.3622	2.360	— .0082	2.3239	— .0051	18	$2\frac{1}{4}$	$\frac{5}{8}$	$\frac{5}{32}$	$\frac{1}{8}$	$\frac{5}{16}$	$\frac{1}{8}$	$3\frac{5}{32}$	$\frac{17}{32}$	.063	$2\frac{19}{32}$
13	N 13	W 13	65	2.5591	2.548	— .0082	2.5119	— .0051	18	$2\frac{7}{16}$	$\frac{21}{32}$	$\frac{5}{32}$	$\frac{1}{8}$	$\frac{5}{16}$	$\frac{1}{8}$	$3\frac{3}{8}$	$\frac{9}{16}$	.063	$2\frac{23}{32}$
14	N 14	W 14	70	2.7559	2.751	— .0082	2.7149	— .0051	18	$2\frac{5}{8}$	$\frac{21}{32}$	$\frac{3}{4}$	$\frac{1}{8}$	$\frac{5}{16}$	$\frac{1}{8}$	$3\frac{5}{8}$	$\frac{9}{16}$	.063	$2\frac{23}{16}$
15	AN 15	W 15	75	2.9528	2.933	— .0112	2.8789	— .0054	12	$2\frac{13}{16}$	$\frac{11}{16}$	$\frac{1}{4}$	$\frac{5}{32}$	$\frac{5}{16}$	$\frac{1}{8}$	$3\frac{7}{8}$	$\frac{19}{32}$	.072	3
16	AN 16	W 16	80	3.1496	3.137	— .0112	3.0829	— .0059	12	3	$\frac{11}{16}$	$\frac{1}{4}$	$\frac{5}{32}$	$\frac{3}{8}$	$\frac{1}{8}$	$4\frac{5}{32}$	$\frac{19}{32}$	.072	$3\frac{3}{16}$
17	AN 17	W 17	85	3.3465	3.340	— .0112	3.2859	— .0074	12	$3\frac{3}{16}$	$\frac{23}{32}$	$\frac{1}{4}$	$\frac{5}{32}$	$\frac{3}{8}$	$\frac{1}{8}$	$4\frac{13}{32}$	$\frac{5}{8}$	.072	$3\frac{3}{32}$
18	AN 18	W 18	90	3.5433	3.527	— .0112	3.4729	— .0074	12	$3\frac{3}{8}$	$\frac{13}{16}$	$\frac{1}{4}$	$\frac{5}{32}$	$\frac{3}{8}$	$\frac{5}{32}$	$4\frac{21}{32}$	$\frac{11}{16}$	.094	$3\frac{19}{32}$
19	AN 19	W 19	95	3.7402	3.730	— .0112	3.6759	— .0074	12	$3\frac{9}{16}$	$\frac{27}{32}$	$\frac{1}{4}$	$\frac{5}{32}$	$\frac{3}{8}$	$\frac{5}{32}$	$4\frac{15}{16}$	$\frac{23}{32}$	.094	$3\frac{13}{16}$
20	AN 20	W 20	100	3.9370	3.918	— .0112	3.8639	— .0074	12	$3\frac{13}{16}$	$\frac{7}{8}$	$\frac{5}{16}$	$\frac{5}{32}$	$\frac{3}{8}$	$\frac{5}{32}$	$5\frac{3}{16}$	$\frac{3}{4}$	.094	4
21	AN 21	W 21	105	4.1339	4.122	— .0112	4.0679	— .0083	12	$3\frac{15}{16}$	$\frac{7}{8}$	$\frac{5}{16}$	$\frac{5}{32}$	$\frac{3}{8}$	$\frac{5}{32}$	$5\frac{7}{16}$	$\frac{3}{4}$	.094	$4\frac{7}{32}$
22	AN 22	W 22	110	4.3307	4.325	— .0112	4.2709	— .0083	12	$4\frac{3}{16}$	$\frac{29}{32}$	$\frac{5}{16}$	$\frac{5}{32}$	$\frac{3}{8}$	$\frac{3}{16}$	$5\frac{23}{32}$	$\frac{25}{32}$	.125	$4\frac{13}{32}$
24	AN 24	W 24	120	4.7244	4.716	— .0112	4.6619	— .0083	12	$4\frac{9}{16}$	$\frac{15}{16}$	$\frac{5}{16}$	$\frac{5}{32}$	$\frac{3}{8}$	$\frac{3}{16}$	$6\frac{1}{8}$	$\frac{13}{16}$	.125	$4\frac{13}{16}$
26	AN 26	W 26	130	5.1181	5.106	— .0112	5.0519	— .0083	12	$4\frac{15}{16}$	1	$\frac{5}{16}$	$\frac{5}{32}$	$\frac{1}{2}$	$\frac{3}{16}$	$6\frac{3}{4}$	$\frac{7}{8}$	.125	$5\frac{7}{32}$
28	AN 28	W 28	140	5.5118	5.497	— .0112	5.4429	— .0083	12	$5\frac{5}{16}$	$\frac{11}{16}$	$\frac{5}{16}$	$\frac{5}{32}$	$\frac{5}{8}$	$\frac{3}{16}$	$7\frac{3}{32}$	$\frac{15}{16}$	.125	$5\frac{19}{32}$
30	AN 30	W 30	150	5.9055	5.888	— .0112	5.8339	— .0083	12	$5\frac{3}{4}$	$\frac{11}{16}$	$\frac{3}{8}$	$\frac{5}{32}$	$\frac{5}{8}$	$\frac{1}{2}$	$7\frac{11}{16}$	$\frac{31}{32}$	.156	6
32	AN 32	W 32	160	6.2992	6.284	— .0152	6.2028	— .0091	8	$6\frac{1}{8}$	$\frac{13}{16}$	$\frac{3}{8}$	$\frac{1}{4}$	$\frac{5}{8}$	$\frac{7}{32}$	$8\frac{1}{16}$	$\frac{11}{32}$	.156	$6\frac{13}{32}$
34	AN 34	W 34	170	6.6929	6.659	— .0152	6.5778	— .0091	8	$6\frac{1}{2}$	$\frac{17}{32}$	$\frac{3}{8}$	$\frac{1}{4}$	$\frac{3}{4}$	$\frac{7}{32}$	$8\frac{1}{2}$	$\frac{1}{16}$	.156	$6\frac{25}{32}$
36	AN 36	W 36	180	7.0866	7.066	— .0152	6.9848	— .0091	8	$6\frac{29}{32}$	$\frac{17}{32}$	$\frac{3}{8}$	$\frac{1}{4}$	$\frac{3}{4}$	$\frac{7}{32}$	$9\frac{1}{16}$	$\frac{13}{32}$	.156	$7\frac{3}{16}$
38	AN 38	W 38	190	7.4803	7.472	— .0152	7.3908	— .0091	8	$7\frac{5}{16}$	$\frac{19}{32}$	$\frac{3}{8}$	$\frac{1}{4}$	$\frac{3}{4}$	$\frac{7}{32}$	$9\frac{15}{32}$	$\frac{11}{8}$	.156	$7\frac{19}{32}$
40	AN 40	W 40	200	7.8740	7.847	— .0152	7.7658	— .0114	8	$7\frac{11}{16}$	$\frac{11}{32}$	$\frac{3}{8}$	$\frac{1}{4}$	$\frac{7}{8}$	$\frac{7}{32}$	$9\frac{27}{32}$	$\frac{13}{16}$	.156	8
44	N 44	W 44	220	8.6614	8.628	— .0152	8.5468	— .0121	8	$8\frac{7}{16}$	$\frac{1}{8}$	—	$\frac{1}{4}$	$1\frac{1}{16}$	$\frac{3}{8}$	11	$\frac{1}{4}$	.156	8.701

*The d dimension is nominal size of bearing.

SHAFT LOCKNUTS AND LOCKWASHERS

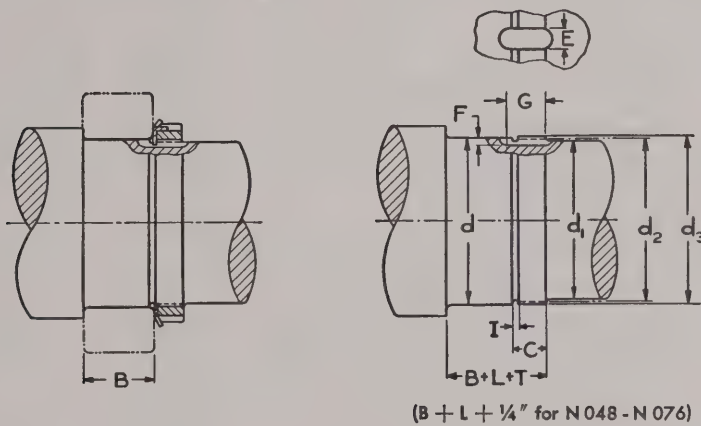
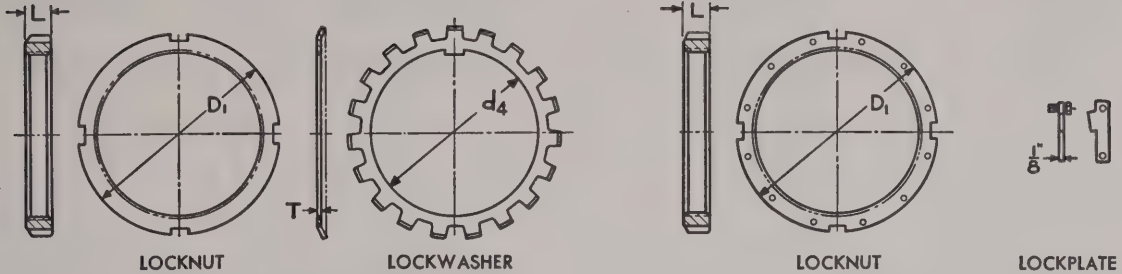
THIN SECTION TYPE

N 022 - N 044

W 022 - W 044

N 048 - N 076

P 48 - P 76



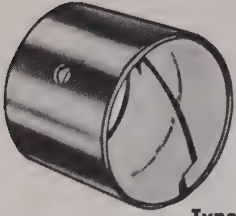
DIMENSIONS

For Bearing with Bore No.	Locknut No.	Lockwasher or Lockplate No.	Shaft Dimensions													Locknut Dim.		Lockwasher Dim.	
			d Nominal		d ₃ Thread O.D.		d ₂ Thread Pitch Diam.		Threads Per Inch *	d ₁ Extension Diam. Max.	C in.	G in.	I in.	E in.	F in.	D ₁ in.	L in.	T in.	d ₄ in.
			mm	in.	Max.	Tol. +.0000	Max.	Tol. +.0000											
22	N 022	W 022	110	4.3307	4.325	— .0112	4.2709	— .0083	12	4 ³ / ₁₆	2 ⁹ / ₃₂	1 ⁷ / ₃₂	5 ₃₂	3 ₁₆	5 ⁵ / ₁₆	2 ⁵ / ₃₂	.125	4 ¹³ / ₃₂	
24	N 024	W 024	120	4.7244	4.716	— .0112	4.6619	— .0083	12	4 ³ / ₁₆	1 ⁵ / ₁₆	1 ¹ / ₄	5 ₃₂	3 ₈	5 ¹¹ / ₁₆	1 ¹³ / ₁₆	.125	4 ¹³ / ₁₆	
26	N 026	W 026	130	5.1181	5.106	— .0112	5.0519	— .0083	12	4 ¹⁵ / ₁₆	1	1 ⁵ / ₁₆	5 ₃₂	1 ₂	6 ¹ / ₈	7 ₈	.125	5 ⁷ / ₈	
28	N 028	W 028	140	5.5118	5.497	— .0112	5.4429	— .0083	12	5 ⁵ / ₁₆	1 ¹ / ₁₆	1 ³ / ₈	5 ₃₂	3 ₈	6 ¹ / ₂	1 ¹⁵ / ₁₆	.125	5 ¹³ / ₁₆	
30	N 030	W 030	150	5.9055	5.888	— .0112	5.8339	— .0083	12	5 ³ / ₄	1 ¹ / ₂	1 ¹ / ₂	5 ₃₂	3 ₈	7 ¹ / ₈	2 ¹ / ₁₆	.125	6	
32	N 032	W 032	160	6.2992	6.284	— .0152	6.2028	— .0091	8	6 ¹ / ₈	1 ⁵ / ₁₆	1 ³ / ₁₆	1 ₄	5 ₈	7 ¹ / ₂	1 ¹ / ₂	.125	6 ¹³ / ₃₂	
34	N 034	W 034	170	6.6929	6.659	— .0152	6.5778	— .0091	8	6 ¹ / ₂	1 ¹ / ₃₂	1 ¹⁹ / ₃₂	1 ₄	3 ₄	7 ³ / ₈	1 ¹ / ₁₆	.125	6 ²⁵ / ₃₂	
36	N 036	W 036	180	7.0866	7.066	— .0152	6.9848	— .0091	8	6 ²⁹ / ₃₂	1 ¹ / ₄	1 ¹ / ₂	3 ₄	3 ₄	7 ⁷ / ₈	1 ³ / ₁₆	.125	7 ¹ / ₁₆	
38	N 038	W 038	190	7.4803	7.472	— .0152	7.3908	— .0091	8	7 ⁵ / ₁₆	1 ³ / ₂	1 ²¹ / ₃₂	1 ₄	3 ₄	8 ¹¹ / ₁₆	1 ³ / ₈	.125	7 ¹⁹ / ₃₂	
40	N 040	W 040	200	7.8740	7.847	— .0152	7.7658	— .0114	8	7 ¹¹ / ₁₆	1 ¹ / ₂	1 ²³ / ₃₂	1 ₄	3 ₈	7 ⁷ / ₈	9 ¹ / ₁₆	1 ¹ / ₁₆	.125	8
44	N 044	W 044	220	8.6614	8.628	— .0152	8.5468	— .0121	8	8 ⁵ / ₁₆	1 ³ / ₈	1 ⁹ / ₁₆	1 ₄	1 ¹ / ₁₆	3 ₈	10 ¹ / ₄	1 ¹ / ₄	.156	8 ¹⁵ / ₃₂
48	N 048	P 48	240	9.4488	9.442	— .0202	9.3337	— .0124	6	9 ³ / ₁₆	1 ²³ / ₃₂	1 ₂	1 ₄	1 ¹ / ₈	7 ₁₆	11 ¹ / ₁₆	1 ¹¹ / ₁₆	5 ₁₆ —18 x 5 ₁₆	
52	N 052	P 52	260	10.2362	10.192	— .0202	10.0837	— .0130	6	9 ¹⁵ / ₁₆	1 ²⁵ / ₃₂	1 ₂	1 ₄	1 ¹ / ₈	7 ₁₆	12 ³ / ₁₆	1 ¹³ / ₁₆	3 ₈ —18 x 5 ₈	
56	N 056	P 56	280	11.0236	11.004	— .0202	10.8957	— .0130	6	10 ³ / ₄	1 ⁷ / ₈	1 ₂	1 ₄	1 ¹ / ₄	7 ₁₆	13	1 ¹ / ₂	5 ₁₆ —18 x 5 ₈	
60	N 060	P 60	300	11.8110	11.785	— .0202	11.6767	— .0130	6	11 ¹ / ₂	1 ¹⁵ / ₁₆	1 ₂	1 ₄	1 ³ / ₈	7 ₁₆	14 ³ / ₁₆	1 ³ / ₁₆	3 ₈ —16 x 5 ₈	
64	N 064	P 64	320	12.5984	12.562	— .0202	12.4537	— .0135	6	12 ³ / ₁₆	2 ¹ / ₃₂	1 ₂	1 ₄	1 ⁷ / ₁₆	7 ₁₆	15	1 ¹ / ₂	3 ₈ —16 x 5 ₈	
68	N 068	P 68	340	13.3858	13.303	— .016	13.203	— .016	5	13 ¹ / ₁₆	2 ⁵ / ₃₂	1 ₂	1 ₄	1 ¹ / ₂	7 ₁₆	15 ³ / ₄	1 ³ / ₂	3 ₈ —16 x 5 ₈	
72	N 072	P 72	360	14.1732	14.134	— .016	14.034	— .016	5	13 ¹³ / ₁₆	2 ⁵ / ₃₂	1 ₂	1 ₄	1 ¹ / ₂	7 ₁₆	16 ³ / ₄	1 ³ / ₂	3 ₈ —16 x 5 ₈	
76	N 076	P 76	380	14.9606	14.921	— .016	14.821	— .016	5	14 ³ / ₈	2 ⁵ / ₃₂	1 ₂	1 ₄	1 ¹ / ₂	7 ₁₆	17 ³ / ₄	1 ³ / ₂	3 ₈ —13 x 3 ₄	
																			Capscrew Dimension

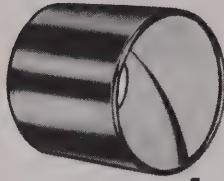
*Locknuts N 022 to N 064 inclusive have threads derived from the Screw Thread Standards for Federal Services Handbook

H-28 (1944) page 111, and H-28 (1957) Part I, page 181.

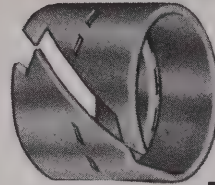
Locknuts N 068, N 072 and N 076 have Acme Threads, General Purpose Class 3 G according to ASA Standard B 1.5-1952.

THOMSON NYLINED BEARINGS**Type 1**

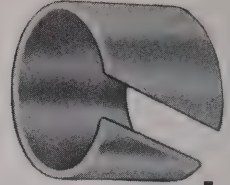
Complete with Carbon Steel
Outer Sleeve and Provision for
Lubrication

**Type 2**

Complete with Carbon Steel
Outer Sleeve but No Provision
for Lubrication

**Type 3**

Nylined Bearing "Liners"
Only, with Provision for
Lubrication

**Type 4**

Nylined Bearing "Liners"
Only, Without Provision for
Lubrication

The excellent frictional properties, strength, heat resistance, chemical resistance and damping characteristics of DuPont FM 10001 Nylon make it an ideal material for bearings.

The unique Nylined principle offers all of the outstanding advantages of Nylon as a bearing material and overcomes the limitations of plain injection molded or machined Nylon bearings.

NYLINED BEARINGS

(Used where press fitting is most practical or economical method of retention.)

Type 1 Bearing No.	Type 2 Bearing No.	Nominal Bearing Size			Max. Recom. Shaft Dia.	Recommended Housing Bore Limits	
		I.D.	O.D.	Length +.000 -.010		Min.	Max.
4N6	4N6-D	1/4	11/32	3/8	.2500	.3430	.3435
5N7	5N7-D	5/16	7/16	1/2	.3125	.4370	.4380
6N8	6N8-D	3/8	1/2	5/8	.3750	.4990	.5000
8N8	8N8-D	1/2	3/4	1	.5000	.6240	.6250
10N12	10N12-D	3/4	1	1 1/4	.6250	.7490	.7500
12N12	12N12-D	3/4	7/8	3/4	.7500	.8740	.8750
14N12	14N12-D	7/8	1	3/4	.8750	.9990	1.0000
16N16	16N16-D	1	1 1/8	1	1.0000	1.1240	1.1250
18N16	18N16-D	1 1/8	1 3/4	1	1.1250	1.2490	1.2500
20N16	20N16-D	1 1/4	1 7/8	1	1.2500	1.3740	1.3750

NYLINERS

(For use where provision for retention can be incorporated in product.)

Type 3 Bearing No.	Type 4 Bearing No.	Nom. Bearing I.D.	Maximum Shaft Diam.	Housing Bore ±.0005	Min. Dist. between Retaining Shoulders	Retaining Lips I.D. ±.0005
4L6	3L4-D	3/16	.1875	.2345	.210	.205
5L7	4L6-D	1/4	.2500	.2950	.327	.268
6L8	5L7-D	5/16	.3125	.3815	.385	.335
8L8	5L9-D	3/8	.3125	.3805	.550	.335
10L12	6L8-D	3/8	.3750	.4440	.448	.395
12L12	8L8-D	1/2	.5000	.5690	.448	.520
14L12	8L12-D	1/2	.5000	.5690	.770	.520
16L16	9L8	3/4	.5625	.6315	.500	.585
18L16	10L12-D	3/4	.6250	.6940	.700	.645
20L16	10L16-D	3/4	.6250	.6940	1.030	.645
22L16	12L5-D	3/4	.7500	.8185	.340	.752
24L20	12L12-D	3/4	.7500	.8185	.700	.770
26L20	14L12-D	1	.8750	.9390	.700	.893
28L20	16L16	1	1.0000	1.0590	.940	1.020
30L20	16L18-D	1	1.0000	1.0940	1.156	1.020
32L20	18L16	1 1/8	1.1250	1.1855	.940	1.145
34L20	18L18-D	1 1/8	1.1250	1.2190	1.156	1.145
36L20	20L16	1 1/4	1.2500	1.3115	.940	1.270
38L20	20L18-D	1 1/4	1.2500	1.3440	1.156	1.270
40L20	24L20	1 1/2	1.5000	1.5865	1.190	1.535
42L20	24L24-D	1 1/2	1.5000	1.6250	1.550	1.540
44L20	32L39-D	2	2.0000	2.1255	2.470	2.040
46L20	48L28-D	3	3.0000	3.1255	1.770	3.040

Design Limitations Solved by NYLINED Bearings**SUITABLE FOR CLOSE FITS**

Dimensional instability caused by moisture absorption and thermal expansion are important factors limiting the use of plain Nylon bearings.

Nylon can absorb up to 8.5% moisture with an accompanying dimensional change of 0.025 inch per inch. Thermal expansion of Nylon is about ten times that of steel.

The compensation gap in NYLINED Bearings takes up these dimensional changes, eliminating the need for the usual wide clearances required to prevent binding and seizure.

PERMISSIBLE TO PRESS FIT

Nylon has an inherent tendency to release strain, induced by press fits, by cold flowing, with the result that the bearing will become loose in the housing and decrease the required shaft clearance, which may result in seizure.

NYLINED Bearings (NYLINER with Steel Outer Sleeve) present no cold flow or creep problem and may be installed with a press fit as external pressures resulting from the press fit are readily carried by the outer metal sleeve and none of the stresses are transferred to the actual bearing material.

UNIFORM LOAD DISTRIBUTION

NYLINED Bearings do not require the clearance required for plain injection molded or machined Nylon bearings. This affords uniform load distribution over the working surface and consequently greater load capacity and life are assured.

STRUCTURALLY STABLE

NYLINED Bearings, with their thin sheet of Nylon material, are not vulnerable to internal stress deformation.

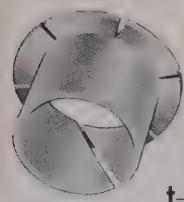
Machined or Molded Nylon bearings, with relatively thick wall sections, may distort by release of internal stresses within the material at operating temperature. Heavy section Nylon bearings, when confined on the O. D., have no compensation for this change, and can close in on the shaft with a resulting increase in heat generation and subsequent seizure.

NO WASTED NYLON

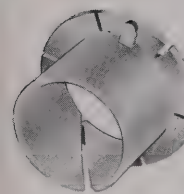
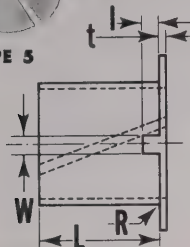
The NYLINED Liner, whether used in a metal outer sleeve or directly in a housing, contains no more Nylon than is necessary for a bearing surface.

In injection molded or machined Nylon bearings there usually must be more material used than necessary for a bearing surface because of structural considerations.

THOMSON FLANGED NYLINER BEARINGS



TYPE 5



TYPE 6
WITH
ANTI-
ROTATION
KEY

Bearing Number		Nom. Brg. I.D.	Bearing I.D.* +.001 -.000	Maximum Shaft Diameter	Housing Bore ±.0005	Bearing Length "L" +0 -1/64	Radius "R" Max.	FLANGE		Type 6 Bearing Only Key	
Type 5	Type 6							Dia. ± 1/64	+ .000 -.005	+ .000 -.010	+ 0 - 1/64
3L3-F	3L3-FK	3/16	.1885	.1875	.2345	3/16	.010	5/16	.025	1/16	1/16
4L4-F	4L4-FK	1/4	.2510	.2500	.2970	1/4	.010	19/32	.025	1/16	1/16
5L5-F	5L5-FK	5/16	.3135	.3125	.3750	5/16	.015	1/2	.030	3/32	3/32
5L7-F	5L7-FK	5/16	.3135	.3125	.3750	7/16	.015	1/2	.030	3/32	3/32
5L10-F	5L10-FK	5/16	.3135	.3125	.3750	5/8	.015	1/2	.030	3/32	3/32
6L6-F	6L6-FK	3/8	.3760	.3750	.4375	3/8	.015	19/32	.030	3/32	3/32
6L11-F	6L11-FK	3/8	.3760	.3750	.4375	1/2	.015	19/32	.030	3/32	3/32
7L7-F	7L7-FK	7/16	.4385	.4375	.5000	7/16	.015	21/32	.030	3/32	3/32
8L3 1/2-F	8L3 1/2-FK	1/2	.5010	.5000	.5625	1/2	.015	3/4	.030	3/32	3/32
8L5 1/2-F	8L5 1/2-FK	1/2	.5010	.5000	.5625	11/32	.015	3/4	.030	3/32	3/32
8L8-F	8L8-FK	1/2	.5010	.5000	.5625	1/2	.015	3/4	.030	3/32	3/32
8L12-F	8L12-FK	1/2	.5010	.5000	.5685	1/2	.015	3/4	.030	3/32	3/32
10L5 1/2-F	10L5 1/2-FK	5/8	†.6260	.6250	.6875	11/32	.015	19/16	.030	1/8	1/8
10L7-F	10L7-FK	5/8	.6260	.6250	.6875	7/16	.015	19/16	.030	1/8	1/8
10L10-F	10L10-FK	5/8	.6260	.6250	.6875	5/8	.015	15/16	.030	1/8	1/8
10L14-F	10L14-FK	5/8	.6260	.6250	.6875	3/4	.015	15/16	.030	1/8	1/8
10L18-F	10L18-FK	5/8	.6260	.6250	.6875	1 1/8	.015	1 1/16	.030	1/8	1/8
12L12-F	12L12-FK	3/4	.7510	.7500	.8125	3/4	.015	1 1/8	.030	1/8	1/8
12L18-F	12L18-FK	3/4	.7510	.7500	.8125	1 1/8	.015	1 1/8	.030	1/8	1/8
14L7 1/2-F	14L7 1/2-FK	7/8	.8760	.8750	.9375	15/32	.015	1 1/16	.030	1/8	1/8
14L14-F	14L14-FK	7/8	.8760	.8750	.9375	7/8	.015	1 1/16	.030	1/8	1/8
16L16-F	16L16-FK	1	† 1.0015	1.0000	1.0940	1	.020	1 1/2	.045	3/16	3/16
18L18-F	18L18-FK	1 1/8	† 1.1265	1.1250	1.2190	1 1/8	.020	1 11/16	.045	3/16	3/16
20L20-F	20L20-FK	1 1/4	† 1.2515	1.2500	1.3440	1 1/4	.020	1 7/8	.045	3/16	3/16
24L24-F	24L24-FK	1 1/2	†† 1.5020	1.5000	1.6250	1 1/2	.025	2 1/4	.060	3/16	3/16

*When Installed in Minimum Housing Bore.

†Plus .0015 Minus .0000.

††Plus .002 Minus .000.

‡Plus .003 Minus .000.

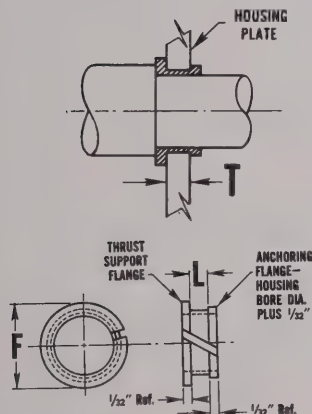
THOMSON SNAP-IN NYLINER BEARINGS

The minimum clearance for "Snap-In" Nyliners is .001. "Snap-In" Nyliners can be used with shaft diameters a few thousand's larger or smaller than shown in table by varying the housing bore a corresponding amount. Radial load capacity (K) will change in proportion to change in plate thickness.

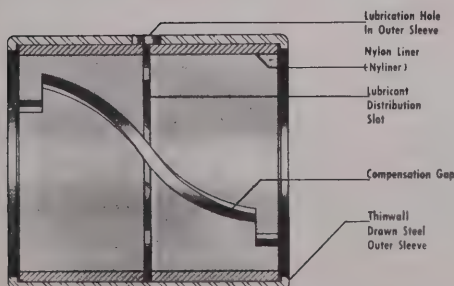
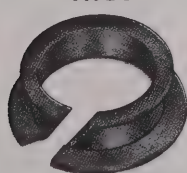
Bearing Number	Nominal Shaft Size	Nominal Housing Bore	Bearing I.D.* +.003 -.000	Flange Diam. F ± 1/64	Bearing Length L +1/64 -0	Plate Thickness "T"		Radial Load K Capacity in Lbs. for Max. Plate Thickness-Static
						Minimum	Maximum	
2L1-FF	1/8	11/64	.1260	1/4	.078	.040	.075	15
2L2-FF	(.125)	(.1718)			.140	.072	.135	28
3L1-FF	3/16	15/64	.1885	5/16	.078	.040	.075	24
3L2-FF	(.1875)	(.2343)			.140	.072	.135	48
4L1-FF	1/4	5/16	.2510	7/16	.078	.040	.075	32
4L2-FF	(.250)	(.3125)			.140	.072	.135	64
5L1-FF	5/16	3/8	.3135	1/2	.078	.040	.075	40
5L2-FF	(.3125)	(.3750)			.140	.072	.135	80
6L1-FF	3/8	7/16	.3760	5/8	.078	.040	.075	48
6L2-FF	(.375)	(.4375)			.140	.072	.135	96
7L1-FF	7/16	1/2	.4385	5/8	.078	.040	.075	56
7L2-FF	(.4375)	(.500)			.140	.072	.135	112
8L1-FF	1/2	5/8	.5010	11/16	.078	.040	.075	68
8L2-FF	(.500)	(.5625)			.140	.072	.135	135
10L1-FF	5/8	11/16	.6260	3/4	.078	.040	.075	83
10L2-FF	(.625)	(.6875)			.140	.072	.135	175
12L1-FF	3/4	13/16	.7510	1	.078	.040	.075	100
12L2-FF	(.750)	(.8125)			.140	.072	.135	200

*When installed in nominal housing bore.

Thrust or axial load ratings are approximately 2 to 3 times radial load ratings.



TYPE 7



The Operating Principles of NYLINED Bearings

The liner is highly engineered and produced by a technique specially developed to obtain optimum bearing characteristics.

Dimensional changes which occur in the Nylon liner due to moisture absorption and temperature changes are almost entirely eliminated by the axial slot, or compensation gap. The material is not bonded to the metal shell and is not a continuous circle of hoop structure, hence it is free to adjust itself to changes in the circumference dimension without altering the bore diameter of the bearing.

THOMSON BALL BUSHINGS A FINAL SOLUTION TO THE TROUBLES CAUSED BY SLIDING LINEAR MOTIONS

A Simple But Ingenious System of Ball Re-Circulation Permits Almost Frictionless Unlimited Linear Travel

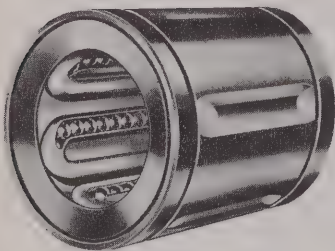
Three or more oblong circuits of balls are provided within the bearing, each of which has the balls in one of its straight sides in bearing contact between the inner surface of the BALL BUSHING sleeve and the shaft. The load is actually rolled freely along on the balls in this portion of the circuit. Balls in the remainder of the circuit are free to roll in clearance provided in the sleeve.

A retainer within the sleeve guides the balls in their proper path and prevents them from falling out when the bearing is removed from the shaft. This makes the BALL BUSHING a neat compact unit, as easy to handle and install as a plain bushing.

Ball Bushings Are Basically For Linear Motions Only

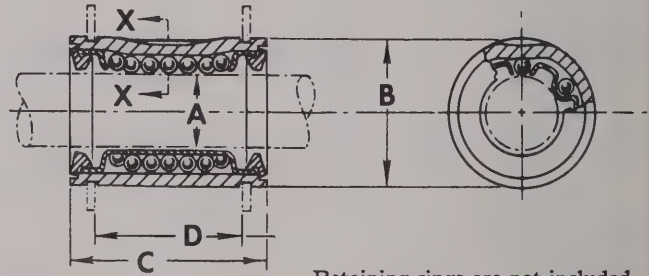
Relative rotating between the bearing and the shaft will cause the balls to slide with resulting wear or damage to the retainer. BALL BUSHINGS of standard design are generally not recommended where a member that both rotates and reciprocates must be sup-

ported. Often rotary bearings can be used in combination with BALL BUSHINGS to handle the combination of motions. Our Engineering Department should be consulted on problems of this nature.



Unlimited Travel

"XA" SUPER PRECISION BALL BUSHINGS available for applications requiring extremely close tolerances. Add prefix "XA." (Example: XA-81420). "A" and "XA" BALL BUSHINGS can be obtained made entirely of Stainless Steel. Add suffix "SS" (Example: A-81420-SS).



Retaining rings are not included with Ball Bushings.

PRECISION SERIES A

Ball Bushing Number	A		B		C		D		Maximum Permissible Shaft Dia.	Rated Load Based on a Shaft Hardness of Rockwell 60C.	
	Work-ing Bore	Tol. +.0000 to	Outside Dia.	Tol. +.0000 to	Length	Tol. +.000	Distance Between Retaining Rings	Tol.		Static Lbs.	Rolling Lbs.
A-4812	.2500	-.0005	.5000	-.0004	.750	-.015	.437	±.010	.2490	22	13
A-61014	.3750	-.0005	.6250	-.0004	.875	-.015	.562	±.010	.3740	38	21
A-81420	.5000	-.0005	.8750	-.0004	1.250	-.015	.875	±.010	.4990	72	46
A-122026	.7500	-.0005	1.2500	-.0004	1.625	-.015	1.062	±.010	.7490	162	109
A-162536	1.000	-.0005	1.5625	-.0004	2.250	-.015	1.625	±.015	.9990	262	202
A-203242	1.250	-.0006	2.000	-.0005	2.625	-.020	1.875	±.015	1.2490	465	344
A-243848	1.500	-.0006	2.375	-.0005	3.000	-.020	2.250	±.015	1.4990	695	535
A-324864	2.000	-.0008	3.000	-.0006	4.000	-.020	3.000	±.015	1.9985	1100	850
A-406080	2.500	-.0010	3.750	-.0008	5.000	-.025	3.750	±.015	2.4985	1710	1380
A-487296	3.000	-.0012	4.500	-.0010	6.000	-.030	4.500	±.015	2.9980	2460	2000
A-6496128	4.000	-.002	6.000	-.0012	8.000	-.040	6.000	±.020	3.9980	4760	4300

SHAFTS FOR BALL BUSHINGS

The shaft on which the BALL BUSHING operates acts as the inner bearing race. To assure a long service life it should be hardened. To provide smooth operation and high precision, it must be smooth, round and unusually straight. 60 CASE hardened and ground shafts are of highest quality to meet these requirements.

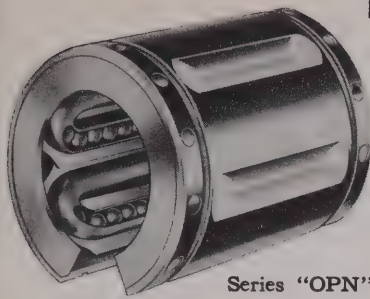
Class of Shafting	For Use with Ball Bushing Series
Class "L"	XA, ADJ, OPN
Class "S"	A
Class "D"	DS

See page 383 for details

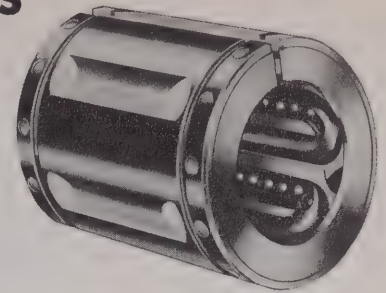
60 Case material is solid AISI C-1060 hardened to Rockwell 58-63C and centerless ground. Ends are chamfered $\frac{1}{16}$ " x 45° but not precision finished. 60 Case shafts are straight within .001/.002" per foot depending on size. Straighter shafts can be supplied at slight extra cost. Surface finish is from 16 to 32 micro inches rms. The length tolerance is $\pm \frac{1}{32}$ ".

THOMSON BALL BUSHINGS

ADJUSTABLE—OPN and ADJ SERIES



Series "OPN"



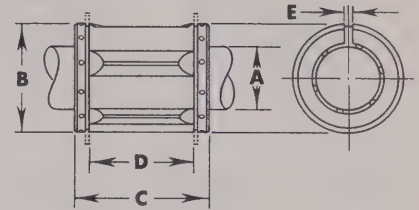
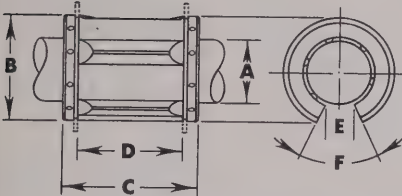
Series "ADJ"

ADJ—Adjustable Diameter Ball Bushings are split longitudinally and designed to easily provide line-to-line or slight pre-load fits when mounted in adjustable diameter housings.

OPN—Open Type Ball Bushings have a longitudinal section removed from their circumference, to permit the use of shaft support members along the length of the shaft which they traverse. The standard Open Type have an open sector equal to one ball circuit. The width of the open sector can be increased on special orders by omitting additional ball circuits.

*When installed in nominal housing bore (Column B) before adjustment.

**In processing split housings, the bore is normally made as close to the minimum housing bore as possible with tolerance taken plus. This prevents an excessive initial close-in of the Bushing and allows for controlled take-up of the housing to produce the desired operating fits.



A ZERO CLEARANCE BALL BEARING FOR YOUR LINEAR MOTIONS

The long sought objective of free-running, no-play linear motion is now a practical and simple matter with the proper application of Adjustable Diameter Ball Bushings. This characteristic can be used to great advantage in many applications such as machine tools, special machinery and tooling, electronic equipment, gauges and instrumentation and many other linear motions where shake, play or chatter is detrimental.

In addition to the economies of using centerless ground round shafts for ways, the low friction, lasting alignment and freedom of chatter of Ball Bushings are important basic considerations in machine design. The provision for adjusting for zero shake or play and for possible subsequent wear is also important and is being used by alert designers who formerly had to use plain sliding flat- or V-ways.

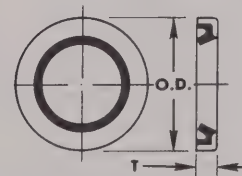
Ball Bushing Number		Ball Bushing Bore Diameter Before Adjustment*		Housing Bore Diameter Before Adjustment**		Length		Distance Between Retaining Rings		(Min.) "ADJ" Slot Width E	(Min.) "OPN" Slot Width E	(Min.) "OPN" Slot Angle F	Max. Shaft Diam.
Series Opn.	Series Adj.	Inches	Tol.	Inches	Tol.	Inches	Tol.	Inches	Tol.		Inches		Inches
OPN-81420	ADJ-81420	.500	±.0005	.8750	+ .001 — .000	1.250	+ .000 — .015	.875	±.010	1/16	1/4	50°	.4995
OPN-122026	ADJ-122026	.7500	±.0005	1.250	+ .001 — .000	1.625	+ .000 — .015	1.062	±.010	3/32	7/16	60°	.7495
OPN-162536	ADJ-162536	1.000	±.0005	1.5625	+ .001 — .000	2.250	+ .000 — .015	1.625	±.015	3/32	3/8	60°	.9995
OPN-203242	ADJ-203242	1.2500	±.0006	2.0000	+ .001 — .000	2.625	+ .000 — .020	1.875	±.015	3/32	5/8	50°	1.2495
OPN-243848	ADJ-243848	1.500	±.0006	2.375	+ .001 — .000	3.000	+ .000 — .020	2.250	±.015	3/8	3/4	50°	1.4994
OPN-324864	ADJ-324864	2.000	±.0008	3.000	+ .001 — .000	4.000	+ .000 — .020	3.000	±.015	3/8	1	50°	1.9994
OPN-406080	ADJ-406080	2.500	±.0010	3.750	+ .0015 — .0000	5.000	+ .000 — .025	3.750	±.015	3/8	1 1/4	50°	2.4993
OPN-487296	ADJ-487296	3.000	±.0012	4.500	+ .0015 — .0000	6.000	+ .000 — .030	4.500	±.015	3/8	1 1/2	50°	2.9992
OPN-6496128	ADJ-6496128	4.000	±.0020	6.000	+ .0020 — .0000	8.000	+ .000 — .040	6.000	±.020	3/8	2	50°	3.9988

NOTE: Load Ratings are the same as shown for Standard "A" Series.

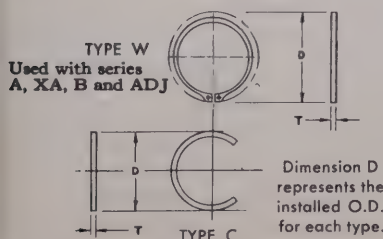
SEALS

The following data is for synthetic rubber Standard Ball Bushing Seals. Up to the S-1500 size the seals are not spring loaded.

RETAINING RINGS



Two types of External Retaining Rings, as illustrated, are offered for use with BALL BUSHINGS. They are usually used to form one or two shoulders on the O.D. of the Bushing. When ordering, specify part number to indicate type and size of ring desired.



Used with series A, XA, B, ADJ and OPN

Use with Ball Bushing No.	Part Number	Dimensions	
		T.	O.D.
4812	W-250	.035	.720
	C-250	.035	.550
61014	W-375	.035	.850
	C-375	.035	.673
81420	W-500	.042	1.150
	C-500	.042	.923
122026	W-750	.050	1.620
	C-750	.050	1.301
162536	W-1000	.062	2.040
	C-1000	.062	1.620
203242	W-1250	.062	2.500
243848	W-1500	.078	2.910
324864	W-2000	.093	3.600
406080	W-2500	.109	4.420
487296	W-3000	.109	5.310
6496128	W-4000	.125	7.100

Use with Ball Bushing No.	Nominal Shaft Dia.	Part Number	Dimensions	
			T.	O.D.
A, XA or B-4812	1/4"	S-250	.125	.504
A, XA or B-61014	3/8"	S-375	.125	.629
A, XA or B-81420	1/2"	S-500	.125	.879
A, XA or B-122026	3/4"	S-750	.125	1.254
A, XA or B-162536	1"	S-1000	.187	1.567
A, XA or B-203242	1 1/4"	S-1250	.375	2.004
A or XA-243848	1 1/2"	S-1500	.375	2.379
A or XA-324864	2"	S-2000	.375	3.004
A or XA-406080	2 1/2"	S-2500	.375	3.756
A or XA-487296	3"	S-3000	.500	4.506
A or XA-6496128	4"	S-4000	.500	6.006

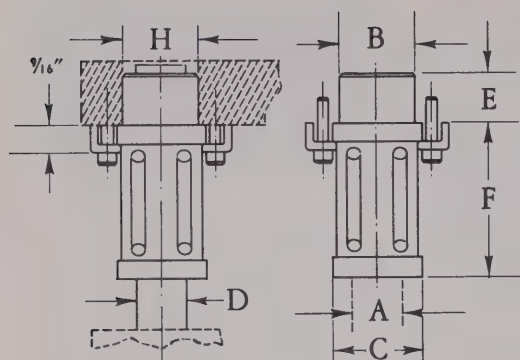
Seals for OPN and ADJ Series are Available

NEED HELP ON BEARINGS—CALL US

THOMSON BALL BUSHINGS

DIE SET BALL BUSHINGS

This new Die-Set BALL BUSHING was designed specifically to fit the mounting holes in the punch holder of standard die sets. Each D.-S. BALL BUSHING is supplied with the required number of toe clamps and socket head screws for immediate interchange. Other features include extremely rugged construction, additional load capacity and travel life, and the provision of an integral seal.

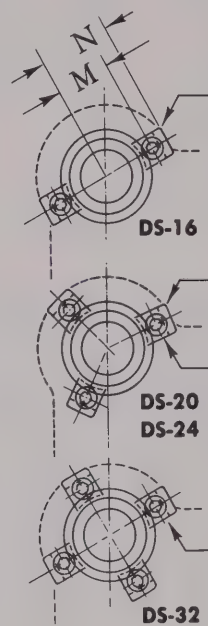


SPECIFICATIONS & MOUNTING

D.S. Bushing Number	A Bushing Working Bore		B Bushing Pilot Dia.	C O.D.	D Recom'd. Guide Post Dia.†	E Bushing Pilot Length	F	H Recom'd. Mounting Hole Dia.	M	N
	Nom.	Tol.								
DS-16	1"	.9997 1.0000	1.5003 1.5007	1 13/16"	1.0000 1.0003	1 5/16"	3"	1.5000 1.5005	1 1/16"	1 13/32"
DS-20	1 1/4"	1.2497 1.2500	1.7503 1.7507	2 7/32"	1.2500 1.2503	1 3/16"	3 1/2"	1.7500 1.7505	1 17/64"	1 39/64"
DS-24	1 1/2"	1.4997 1.5000	2.0003 2.0007	2 5/8"	1.5000 1.5003	1 1/16"	4"	2.0000 2.0005	1 3/16"	2"
DS-32	2"	1.9997 2.0000	2.5003 2.5007	3 1/16"	2.0000 2.0003	1 5/16"	4 1/4"	2.5000 2.5005	1 5/16"	2 3/8"

†Thomson Class "D" Shafting recommended for Die Set Ball Bushings.

Lower unit cost
Seizure elimination
Reduced lubrication
Unlimited stroke length
Integral seals
Standard sizes
Simple replacement



1" DS-16 furnished with 2 clamps #CL-1 and 2 socket head screws 1/4"-20 x 1"

1 1/4" DS-20 furnished with 3 clamps #CL-1 and 3 socket head screws 5/16"-20 x 1"

1 1/2" DS-24 furnished with 3 clamps #CL-2 and 3 socket head screws 5/16"-18 x 1"

2" DS-32 furnished with 4 clamps #CL-2 and 4 socket head screws 5/16"-18 x 1"

SUPERSENSITIVE MINIATURE INSTRUMENT BALL BUSHINGS

These new miniature instrument bushings, in place of ordinary friction type sleeve bearings, provides optimum performance characteristics.

Matched sets of BALL BUSHINGS with shafts fitted to provide minimum clearance are available for applications in which extreme sensitivity is a requirement.

Ball Bushing Number	Working Bore	O.D.	Length	Distance Between Retaining Rings	Maximum* Inter-Changeable Shaft Dia.	Recommended Housing Bore		Rated Load**	
						Normal Fit	Press Fit	Static	*** Rolling
	A	B	C	D	Inches	Inches	Inches Tol.	Pounds	Pounds
Inst-258-SS	.1250	.3125	.500	.312	.1246	.3125	.0005	8	5
Inst-369-SS	.1875	.3750	.562	.375	.1871	.3750	None	11	6.5
Inst-4812-SS	.2500	.5000	.750	.437	.2496	.5000	.0001	22	13

*Closer fits can be obtained by selective assembly.

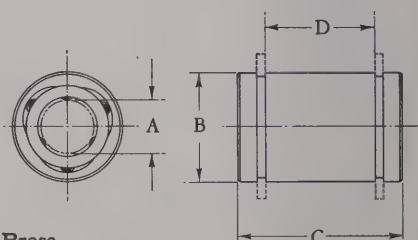
**Based on a shaft hardness of Rockwell 60C.

***Based on a travel life of 2 million inches.

BALL RETAINER—Brass

Material: BALLS—Stainless Steel

OUTER SLEEVE—Stainless Steel



RESILIENT BALL BUSHING MOUNTS

RESILIENT BALL BUSHING MOUNTS are recommended for installations where absolute rigidity is not essential. The cushion support provides quiet operation and protection from impact loads. Compensates for misalignment which normally could cause rough operation and seizure. Resilient Mounts reduce need for precision housing bores and shaft straightness requirement.

NEOPRENE RING IS A PRESS FIT WHICH ASSURES ADEQUATE RETENTION IN THE HOUSING BORES SPECIFIED.

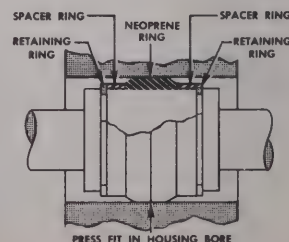
Part Number Complete Assembly	Nominal Shaft Dia.	Recommended Housing Bore
1434A-250	1/8"	5/8"
1434A-375	3/8"	3/4"
1434A-500	1/2"	1"
1434A-750	3/4"	1 1/8"
1434A-1000	1"	1 1/4"
1434A-1250	1 1/4"	2 1/8"
1434A-1500	1 1/2"	2 3/4"

Assembly consists of five pieces:

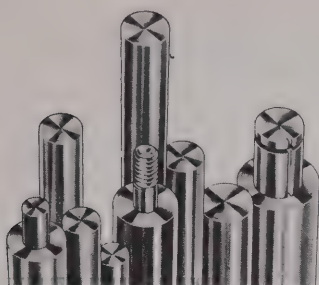
2—Retaining Rings (C Type)

2—Spacer Rings

1—Neoprene Ring



THOMSON 60 Case HARDENED & GROUND SHAFTS



60 Case solves the problem of high costs and difficulty of fabricating long, hard and straight parts by conventional methods. The special techniques and equipment that have been developed produce big savings over conventional methods which are plagued with erratic warpage, straightening and grinding problems.

Large factory stocks enable prompt shipment of **60 Case** material with or without special machining.

TYPICAL 60 Case APPLICATIONS

CONTROL RODS • GUIDE POSTS

GUIDE RODS • SHAFTING

ROLLS • TRAVERSE RAILS

MANDRELS

KING PINS • AXLES

LEADER PINS • TIE RODS

PISTON RODS • ARBORS

BEARING ROLLERS • SPINDLES

SOLID 60 Case Material: 1060 Steel

Nominal Dia.	Classes of Tolerance* Please specify tolerance class on order.						Min. Depth of Hardness	Weight Per Inch of Length (lb.)
	Class "L"	Max. Length	Class "S"	Max. Length	Class "D"	Max. Length		
1/4"	.2495 / .2490"	8'	.2490 / .2485"	8'	—	—	.040"	.014
3/8"	.3745 / .3740"	12'	.3740 / .3735"	12'	—	—	.040"	.031
1/2"	.4995 / .4990"	12'	.4990 / .4985"	12'	—	—	.060"	.055
5/8"	.6245 / .6240"	12'	—	—	—	—	.060"	.086
3/4"	.7495 / .7490"	12'	.7490 / .7485"	12'	—	—	.060"	.125
7/8"	.8745 / .8740"	12'	.8740 / .8735"	12'	—	—	.060"	.170
1"	.9995 / .9990"	16'	.9990 / .9985"	12'	1.0000 / 1.0003"	6'	.080"	.222
1 1/8"	1.1245 / 1.1240"	12'	—	—	—	—	.080"	.281
1 1/4"	1.2495 / 1.2490"	16'	1.2490 / 1.2485"	12'	1.2500 / 1.2503"	6'	.080"	.348
1 3/8"	1.3745 / 1.3740"	12'	—	—	—	—	.080"	.420
1 1/2"	1.4994 / 1.4989"	16'	1.4989 / 1.4984"	12'	1.5000 / 1.5003"	6'	.080"	.500
1 5/8"	1.6245 / 1.6240"	12'	—	—	—	—	.080"	.587
1 3/4"	1.7495 / 1.7490"	12'	1.7490 / 1.7485"	12'	—	—	.100"	.681
2"	1.9994 / 1.9987"	16'	1.9987 / 1.9980"	12'	2.0000 / 2.0003"	6'	.100"	.890
2 1/2"	2.4993 / 2.4985"	16'	2.4985 / 2.4977"	12'	—	—	.100"	1.391
3"	2.9992 / 2.9983"	16'	2.9983 / 2.9974"	12'	—	—	.100"	2.003
3 1/2"	3.4990 / 3.4980"	12'	3.4980 / 3.4970"	12'	—	—	.100"	2.726
4"	3.9988 / 3.9976"	12'	3.9976 / 3.9964"	12'	—	—	.100"	3.560

*If shafts are for use with THOMSON Ball Bushings, refer to page 380 for recommended Class.

STAINLESS STEEL 60 Case 440C—Rockwell 50-55 "C"

TUBULAR 60 Case Material: 1060 Steel

Nominal Dia.	Classes of Tolerance* Please specify tolerance class on order.		Max. Length (Feet)	Minimum Depth of Hardness	Weight Per Inch of Length (lb.)
	Class "L"	Class "S"			
1/4"	.2495 / .2490"	.2490 / .2485"	5'	.040"	.014
3/8"	.3745 / .3740"	.3740 / .3735"	5'	.040"	.031
1/2"	.4995 / .4990"	.4990 / .4985"	12'	.060"	.055
5/8"	.6245 / .6240"	.6240 / .6235"	12'	.060"	.125
1"	.9995 / .9990"	.9990 / .9985"	12'	.080"	.222
1 1/4"	1.2495 / 1.2490"	1.2490 / 1.2485"	12'	.080"	.348
1 1/2"	1.4994 / 1.4989"	1.4989 / 1.4984"	12'	.080"	.500
2"	1.9994 / 1.9987"	1.9987 / 1.9980"	12'	.100"	.890
2 1/2"	2.4993 / 2.4985"	2.4985 / 2.4977"	12'	.100"	1.391

*If shafts are for use with THOMSON Ball Bushings, refer to page 380 for recommended Class.

† Nominal O.D.	Nominal I.D.	Classes of Tolerance* Please specify tolerance class on order.		Weight Per Inch of Length (lb.)
		Class "L"	Class "S"	
1 1/2"	.890" ±5%	1.4994 / 1.4989"	1.4989 / 1.4984"	.328
2"	1.250" ±5%	1.9994 / 1.9987"	1.9987 / 1.9980"	.542
3"	1.750" ±5%	2.9992 / 2.9983"	2.9983 / 2.9974"	1.322

*If shafts are for use with THOMSON Ball Bushings, refer to page 380 for recommended Class.

†Maximum length on these three sizes is 12 ft. Depth of hardness is the same for each dimension as shown in the "Solid 60 Case" table above.

BRONZE CASE

BRONZE CASE, used with hardened steel bushings, is a unique shaft and bearing combination for linear motion.

High quality bearing Bronze is fused on the surface of a steel rod which is subsequently ground and straightened to very close tolerances. The Bronze fusing is done by a high temperature spraying operation which forms a coating of controlled porosity for excellent lubricant retention. Lubricants don't wipe off!

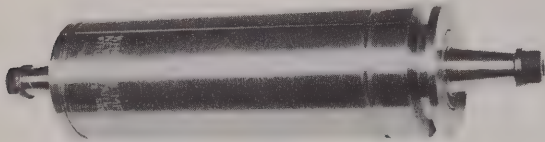
Additionally, the amount of lubricant stored is enormous since it is stored all over the surface!

BRONZE CASE Rods can be furnished promptly, with or without special machining, from a stock of standard material. Standard diameters are 3/4", 1", 1 1/4", 1 1/2", 1 3/4", 2", 2 1/2" and 3". The diameter tolerance up to 2" is +.0000 —.0005". For 2" and over, +.0000 —.0007".

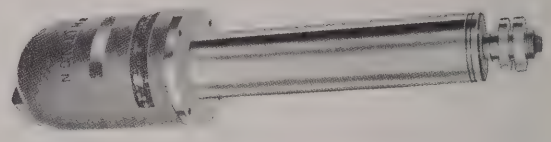
WHITNON**PRECISION BORING AND GRINDING SPINDLES****ULTRA PRECISION
BALL BEARINGS.****SPRING PRELOADED FOR
RADIAL AND AXIAL RIGIDITY.****GREASE LUBRICATION.**

A complete line of WHITNON High Production Spindles for standard grinding, milling, boring and drilling machines, as well as specially designed units for unusual applications are carried in stock. Your

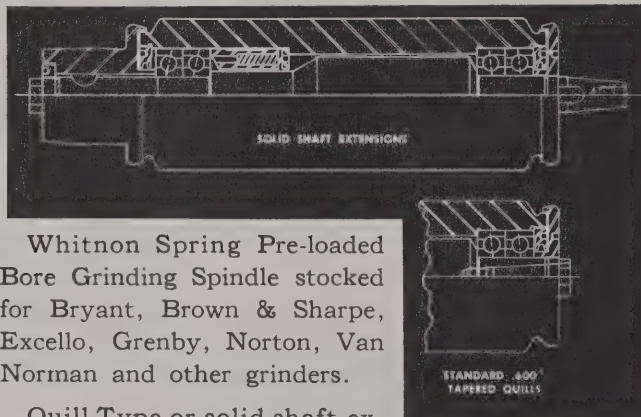
old sleeve and bronze spindles can be replaced with a modern design ultra precision ball bearing Whitnon spindle. Complete catalog available on request.



A replacement ball bearing cutter grinder spindle, stocked for Norton No. 1, No. 2 & Brown & Sharpe No. 10. Replace your troublesome sleeve bearing spindle with this rigid unit.



Whitnon Motorized Surface Grinder Spindle. 1 full HP, 3600 rpm enclosed motor, 220-440 volts, sealed in lubrication.



Whitnon spindles are available for new applications. OEM USER INQUIRIES FOR QUOTES ON SPECIALLY DESIGNED UNITS FOR UNUSUAL APPLICATIONS INVITED.

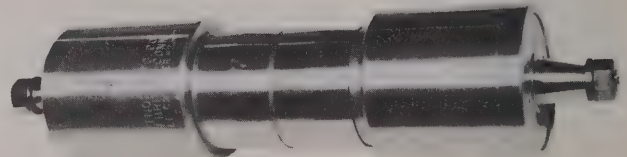
Whitnon Spring Pre-loaded Bore Grinding Spindle stocked for Bryant, Brown & Sharpe, Excello, Grenby, Norton, Van Norman and other grinders.

Quill Type or solid shaft extensions.

WHITNON SPINDLES MEAN INCREASED ACCURACY, LONGER DIAMOND WHEEL LIFE, FINER CUTS, AND HIGHER FINISHES. PRELOADED BALL BEARINGS PREVENT VIBRATION AND CHATTER.



Whitnon spindle to fit Brown & Sharpe Universal Grinders. Sealed in unit permits wheels and belts to be changed without exposing bearings to dirt or disturbing adjustment.



Whitnon spindle for Cincinnati No. 2 Tool & Cutting Grinder. Double body housing with a pair of pulleys between the housings.

FOR COMPLETE INFORMATION ON ANY OR ALL SPINDLE PROBLEMS CONSULT BEARINGS, INC.

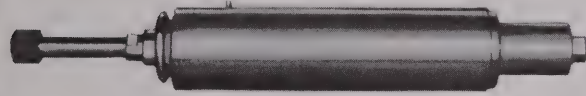
NEED HELP ON BEARINGS—CALL US

POPE

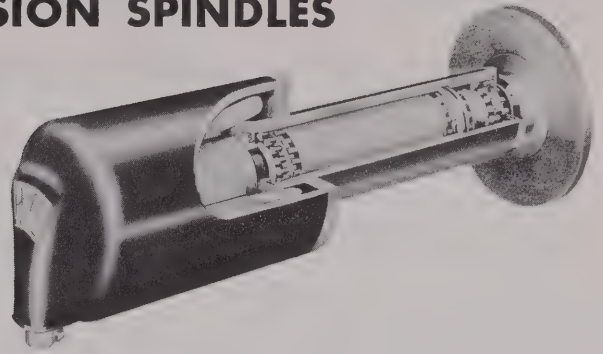
HEAVY DUTY PRECISION SPINDLES

**FEATURING SUPER PRECISION
ROLLER BEARINGS**

**SEPARATE THRUST BEARINGS Sealed-In
LUBRICATION**

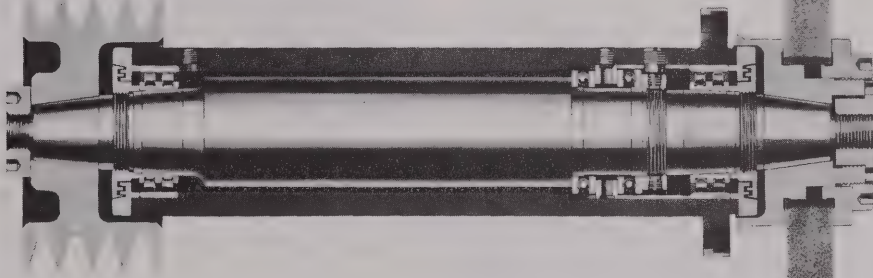


POPE Flat Belt Driven Cartridge Type Internal Grinding Spindle, 15,000 RPM maximum recommended speed.



POPE Direct Motorized Cartridge Type Spindle, with a strong oversize 1 HP. 3450 RPM totally enclosed motor.

When you want a Precision Spindle, let us have your specifications and you'll receive a prompt reply including price and delivery.



POPE Vee Belt Driven Cartridge Type Spindle, designed for the wheel head of small cylindrical grinding machines. 5000 RPM maximum recommended speed.

POPE Spindles are **DYNAMICALLY BALANCED**, running on their own bearings with all rotating parts in full assembly.

IN POPE Spindles extreme radial and axial rigidity is attained, yet so little friction is involved that the bearings operate indefinitely at temperatures scarcely warmer than your hand. The thrust loads, such as are incurred on shoulder or cup wheel grinding, are taken by two separate thrust bearings, accurately preloaded for long life. All end play in either direction is prevented permanently.

The super-precision radial bearings are each individually preloaded to assure long life and superb grinding performance.

With these super-precision bearings the temperature rise is so slight that no time is lost "warming up" spindles. Operation is always cool.

These complete and separate sets of oversize radial and thrust bearings are assembled and adjusted by expert craftsmen. Then they are treated with POPE lubricant, good for the entire life of the bearings, and sealed. No oil cups, grease fittings, wicks or plugs to worry about or overlook. No admittance for dirt or dust.

FEATURES

- **Increased Production**

- **Better Finish**

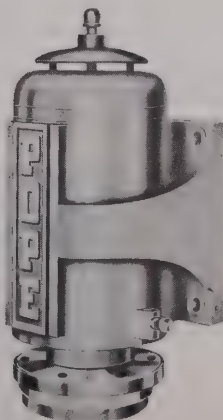
- **Increased Wheel Life**

SEALED-IN LUBRICATION. Dirt and abrasives are sealed out. Lubricant is sealed in. No additional lubrication required during life of bearings.

DYNAMICALLY BALANCED with all rotating parts in full assembly.

POPE Heavy Duty Direct Motorized Precision Spindles, suitable for grinding, milling or boring operations.

Available in a variety of sizes from $\frac{3}{4}$ HP at 900 RPM to 20 HP at 3600 RPM.



FOR COMPLETE INFORMATION ON ANY OR ALL SPINDLE PROBLEMS CONSULT BEARINGS, INC.

NEED HELP ON BEARINGS—CALL US

SPINDLE REPAIR SERVICE

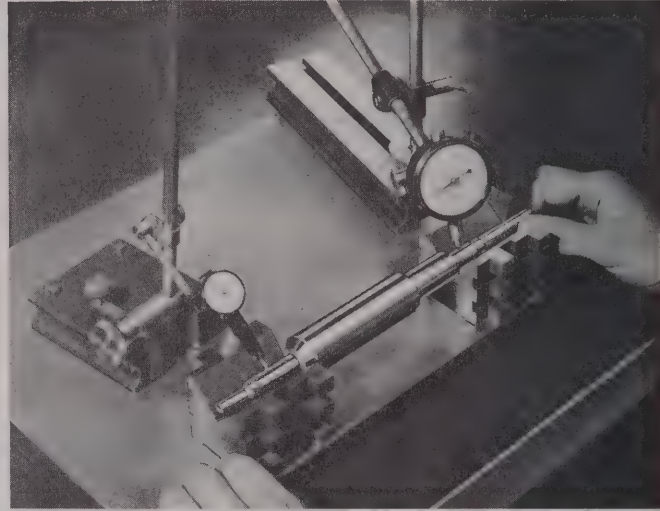
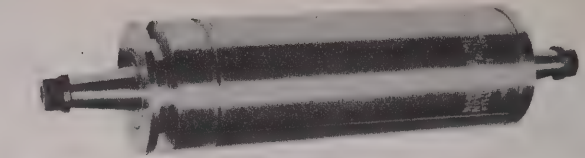
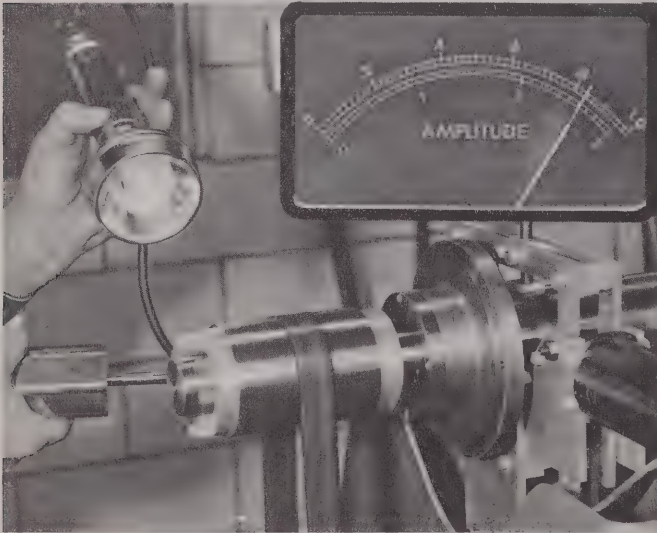
**SPINDLES REBUILT AND BALANCED
BY OUR**

PRECISION SPINDLE EXPERTS

LAST LONGER—PRODUCE BETTER

REBUILDING

To service or rebuild precision grinding spindles so that they will produce the highest quality of work, requires an exceptional degree of skill and experience. This is especially true of spindles traveling at high rpm's, for these require the very finest of precision bearings in order to produce the quality of work required. And it is the care and expert workmanship, plus the quality of the bearings which we put into every job we handle, that assures top-notch performance and longer service life.

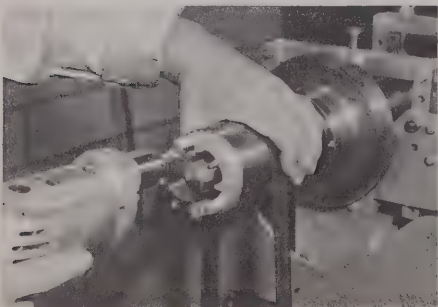
**BALANCING**

Rebuilt and reassembled spindle on scientific balancing machine. Inset photo indicates degree of imbalance or shake still present.

**SCIENTIFIC BALANCING — — — OUR
ANSWER TO UNBALANCED SPINDLES!**

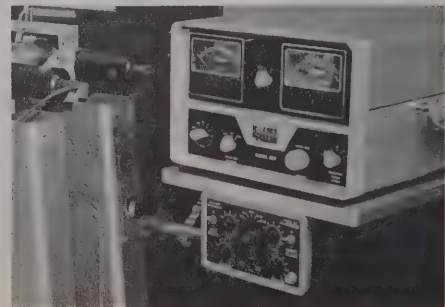
Precision equipment needs the finest care that is available. Our spindle department has the latest equipment to provide this exacting care. A modern ultra-sensitive balancing machine and vibration analyzer assures you that each and every spindle sent to us will be returned with the confidence that no finer service is available for your spindle needs.

Our spindle repair department emphasizes the need for the entire spindle (not only the component parts) including pulley and arbor to be perfectly balanced. This approach is indicative of our thinking that spindle repair is a science. Experts perform the work so that your spindles will perform the way they were designed to—ensuring spindle operation for lengthened service. From careful cleaning and rebuilding to assembly and exact balancing, each step is done so that you can depend upon the work that is returned to you.

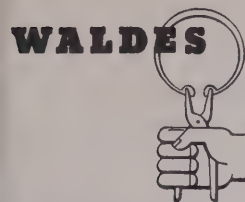


Drilling out the excess metal revealed by balancing machine to create smoother running spindles. Locating heavy points is impossible without the balancing machine.

The analyzer is the heart of the balancing machine. It shows when spindle vibration has virtually been eliminated.



NEED HELP ON BEARINGS—CALL US



TRUARC[®]
U. S. PAT. RE. 18,144. OTHER PATENTS PENDING

RETAINING RINGS

Truarc retaining rings are precision-engineered fasteners which simplify design, speed production and reduce material, machining and assembly costs. They may be used to retain components on shafts and in bores and housings .040" to 10" dia.—and rings as large as 40" dia. have been developed for special applications! Truarc rings are installed in easy-to-cut grooves and self-locking types are available which do not require any preparatory machining. Altogether, there are 50 functionally different types . . . some with as many as 98 sizes . . . in 6 metals and 13 finishes.

More than a fastener! Truarc rings function as mechanical components by replacing machined shoulders, set collars, rivets,

threaded fasteners and other bulkier and more expensive fastening devices. They eliminate drilling, tapping, threading and other costly machining operations. Speed of assembly and disassembly further reduces manufacturing costs and simplifies field service.

Assembly tools for every requirement: Truarc offers you the most complete line of pliers, applicators, dispensers and portable magazine-fed tools for high-speed ring installation . . . even fully mechanized and automated equipment for mass-production assembly operations.

Engineering Service: We'll be happy to help you solve your fastening problems. Send us your blueprints.

SELECTOR GUIDE

function		for axial assembly					for taking up end-play					
		basic		heavy duty	inverted		axial assembly		radial assembly			
nomenclature							bowed		beveled		bowed e-ring	prong-lock
series no.		5000 N5000	5100	5160	5008	5108	N5001	5101	5002 N5002	5102	5131	5139
application		Internal for Housings, Bores	External for Shafts	External for Shafts	Internal for Housings, Bores	External for Shafts	Internal for Housings, Bores	External for Shafts	Internal for Housings, Bores	External for Shafts	External for Shafts	External for Shafts
size range	in.	.250 — 10.0	.125 — 10.0	.394 — 2.0	.750 — 4.0	.500 — 4.0	.250 — 1.500	.188 — 1.500	1.0 — 10.0	1.0 — 10.0	.110 — 1.375	.092 — .438
	mm.	6.4 — 254.0	3.2 — 254.0	10.0 — 50.8	19.0 — 101.6	12.7 — 101.6	6.4 — 38.1	4.8 — 38.1	25.4 — 254.0	25.4 — 254.0	2.8 — 34.9	•

function		for radial assembly				self-locking types					
nomenclature		crescent [®]	e-ring	reinforced e-ring	interlocking	circular self-locking			Grip-ring [®]	triangular self-locking	triangular nut
series no.		5103	5133	5144	5107	5115	5105	5005	5555	5305	5300
application		External for Shafts	External for Shafts	External for Shafts	External for Shafts	External for Shafts	External for Shafts	Internal for Housings, Bores	External for Shafts	External for Shafts	With Threaded Screw
size range	in.	.125 — 2.0	.040 — 1.375	.094 — .562	.469 — 3.375	.094 — 1.0	.094 — 1.0	.312 — 2.0	.079 — .750	.062 — .438	•
	mm.	3.2 — 50.8	1.0 — 34.9	2.4 — 14.3	11.9 — 85.7	•	•	•	2.0 — 19.0	•	•

MATERIALS

• Standard

Standard materials is carbon spring steel (SAE 1065-1090). Certain small sizes available only in beryllium copper (Berylc 25).

• Special

Many Waldes Truarc rings can be supplied in materials other than listed above.

FINISHES AND PLATINGS

• Standard

Standard finish for bulk-packaged carbon spring steel is *oil-dipped*.

• Special

Truarc rings are also available with a variety of corrosion-inhibiting finishes and platings upon specification.

Complete Engineering and Dimensional Data Catalog available on request

® (Registered Trademark of Waldes-Kohinoor, Inc.)

NEED HELP ON BEARINGS—CALL US

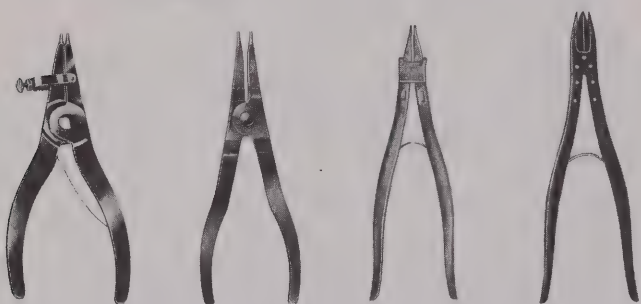
WALDES TRUARC® PLIERS**INTERNAL TYPES**

Nos. 1A, 1, 3 and 5 Nos. 21A, 21, 23 and 25

No. 5R

Nos. 7 and 9

• **Note:** Bracket on No. 5 plier is located below fulcrum.

EXTERNAL TYPES

Nos. 2, 4 and 6

Nos. 22, 24 and 26

Nos. 012, 015, 018

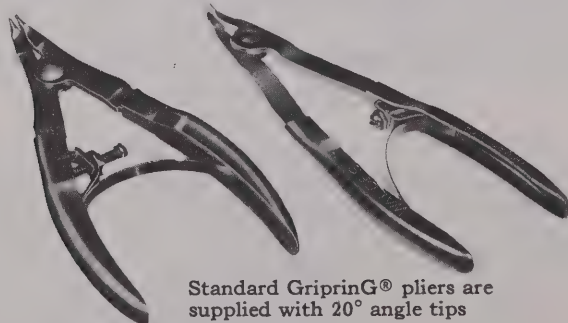
Nos. 0012, 0015, 0018

• **Note:** No. 6 pliers are supplied without bracket.



No. 6R

Nos. 8 and 10

CONVERTIBLE PLIERS
Nos. 12 and 34

Standard GriprinG® pliers are supplied with 20° angle tips

GRIPRING PLIERS Nos. 52, 52A, 52B, 54**SELECTOR GUIDE**

INTERNAL RING SERIES				STD. PLIERS NO.	FIELD PLIERS NO.
N5000/5000 N5001 N5002/5002		5008			
FROM	THRU	FROM	THRU		
-25	-31	•	•	1A	21A
-37	-102	-75	-137	1	21
-106	-175	-143	-200	3	23
-181	-300	-206	-300	5	25
-181	-300	-206	-300	5R*	•
-306	-354	-315	-400	5R*	•
-306	-650	-315	-400	7	•
-662	-1000	•	•	9	•

*Indicate tip diameter when ordering. 15° angle tips are standard.

EXTERNAL RING SERIES						STD. PLIERS NO.	FIELD PLIERS NO.
5100 5101 5102		5108		5160			
FROM	THRU	FROM	THRU	FROM	THRU		
-12	•	•	•	•	•	0012†	012
-15	•	•	•	•	•	0015†	015
-18	•	•	•	•	•	0018†	018
-25	-87	-50	-100	•	•	2	22
-93	-143	-106	-200	•	•	4	24
-150	-350	-215	-334	•	•	6	26
•	•	•	•	-118	-175	6R*	•
-150	-437	-215	-400	-193	-200	6R*	•
-354	-650	-350	-400	•	•	8	•
-675	-1000	•	•	•	•	10	•
•	•	•	•	-39	-47	52A	•
•	•	•	•	-50	-66	52	•
•	•	•	•	-75	-98	54	•

*Indicate tip diameter when ordering. 15° angle tips are standard.
†Angle tips are not available.

CONVERTIBLE PLIERS

Internal Ring Series				External Ring Series						Pliers No.
N5000/5000 N5001 N5002/5002		5008		5100 5101 5102		5108		5555		
From	Thru	From	Thru	Form	Thru	From	Thru	From	Thru	
-37	-102	-75	-137	-25	-87	-50	-100	-12, -15, -18 and -25		
-106	-175	-143	-200	-93	-143	-106	-200	-43	-75	34

GRIPRING® PLIERS

RING SIZE NO.			PLIERS-TOOL NO.
SERIES 5555G	SERIES 5555D	SERIES 5555	
-7, -9, -11	-13	•	52B
•	•	-12 and -15	52A
-19, -23, -27	-18	-18, -25, -35, -39	52
•	•	-31, -37 and -43 thru -75	54

MOST PLIERS CAN BE SUPPLIED WITH 45° OR 90° ANGLE TIPS. CHECK FOR AVAILABILITY

®(Registered Trademark of Waldes-Kohinoor, Inc.)

NEED HELP ON BEARINGS—CALL US

WALDES TRUARC[®] ASSEMBLY AND ACCESSORY TOOLS

APPLICATORS

Truarc Applicators are designed to facilitate assembly of the following radially-installed rings:

- Series 5103 *Crescent*[®] rings
- Series 5133 *E-rings*
- Series 5144 *Reinforced E-rings*
- Series 5131 *Bowed E-rings*
- Series 5139 *Prong-Lock*[®] rings

TRUARC APPLICATORS



NOTE: Applicators for Series 5103, 5133 and 5144 rings are available with straight, angle or offset tips.

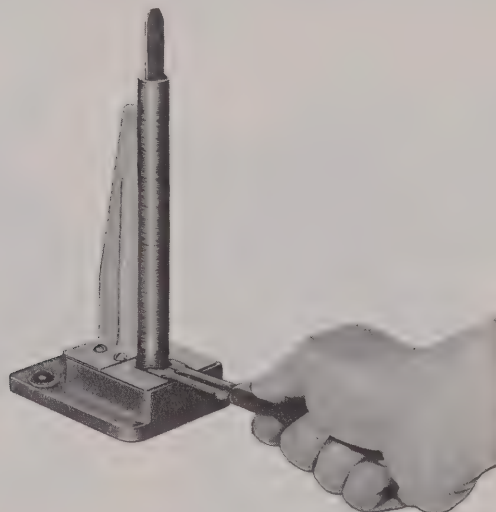
DISPENSERS

Truarc Dispensers, used in conjunction with Truarc Applicators, are designed for faster, more efficient and more economical handling and assembly of Truarc Series 5103 Crescent rings, Series 5133 E-rings, Series 5144 Reinforced E-rings and Series 5139 Prong-Lock rings. In high-volume industries, use of the Applicator and Dispenser is standard installation procedure.

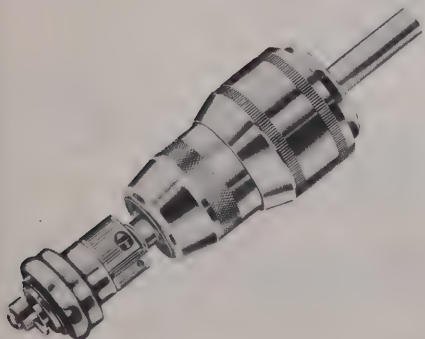
The Dispensers are designed to accommodate stacked rings supplied especially for use with the units. Series 5103, 5133 and 5144 rings are stacked in tape-wrapped Rol-Pak cartridges; Series 5139 rings are stacked on rods.

The Dispenser for Series 5103, 5133 and 5144 rings is loaded with Rol-Pak[®] stacked rings as illustrated below.

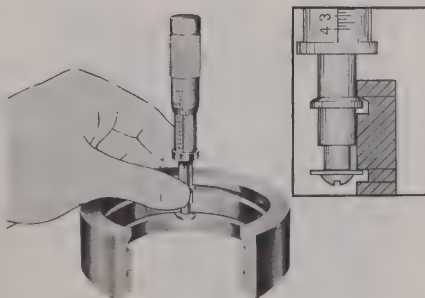
Series 5103, 5133, 5144 Dispensers



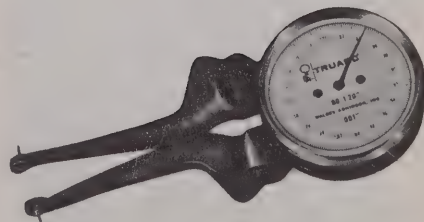
TRUARC GROOVING TOOL AND GAGES



Truarc Grooving Tool—The Truarc grooving tool is specially designed for cutting precisely located and dimensioned retaining ring grooves. It may also be used for oil grooves, thread reliefs and other recessing operations. Fits any machine equipped with a chuck or collet. Can be operated at high speeds even by unskilled labor. Five standard models accommodate bores from 0.375 to 5" diameter.



Truarc Groove Location Gage—A new micrometer gage designed to provide an accurate, economical means for measuring the location of beveled and rectangular grooves. Tool measures distance from outer groove wall to plane of reference located 0.4" to 1.4" from groove wall. In addition to retaining ring grooves, gage may be used to locate O-ring grooves, rectangular oil grooves, thread reliefs.

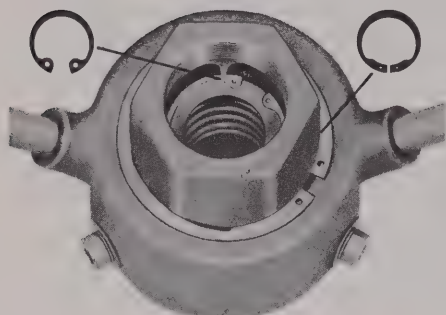


Truarc Dial-Indicator Gages—A new line of direct-reading and zero-setting gages for measuring the diameter of bores and housings, retaining ring grooves and other internal recesses. The gages are available in five models to accommodate diameters ranging from .20" to 3.0".

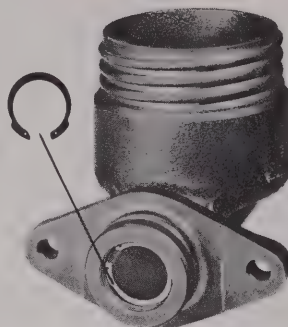
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WALDES**TRUARC®**

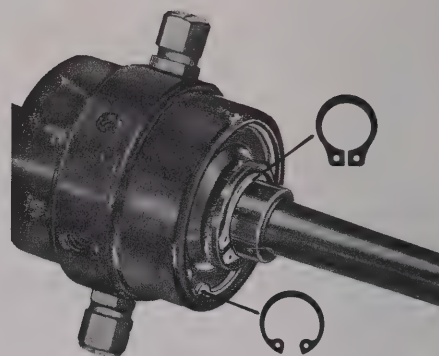
U. S. PAT. RE. 18,144. OTHER PATENTS PENDING

FIELD APPLICATIONS**RETAINING RINGS**

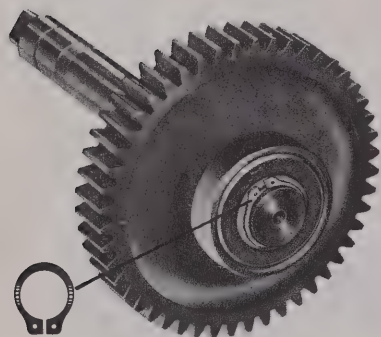
Series N5000, 5108: Replace internal and external threaded retainers in self-sealing coupling. Eliminate machining operations, reduce size and weight of unit.



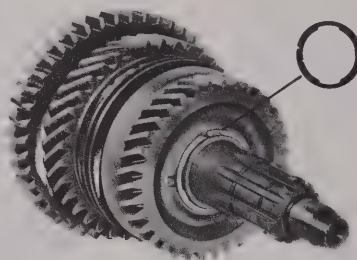
Series 5008: Locks piston, flat washer, spring and cup washer in master brake cylinder. Installed rapidly with Truarc Ring-O-Mat® mechanized equipment.



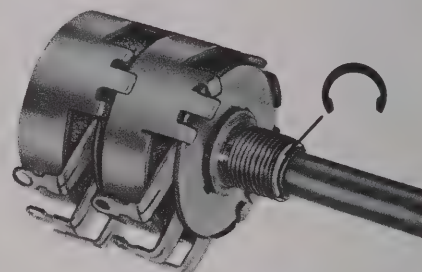
Series 5100: Two external rings—one at each end—position and retain housing on shaft of high-speed rotary coolant inductor. Two Series N5000 internal rings lock end-plates.



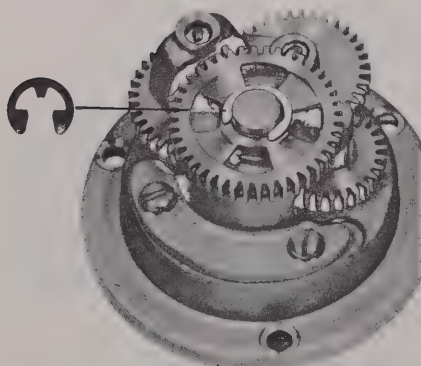
Series 5101: Two rings preload bearing on power take-off shaft of heavy-duty kitchen mixer. Another ring retains gear on shaft, taking up end-play in assembly.



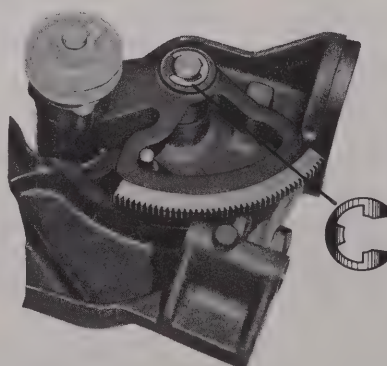
Series 5107: Retains third-speed gear on main shaft of truck transmission. Withstands heavy thrust loads and relative rotation when gear is engaged and disengaged.



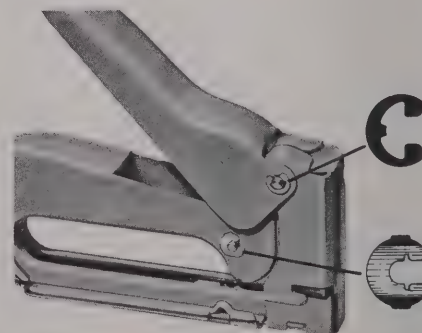
Series 5103: Positions and locks threaded ferrule on potentiometer shaft. Low, uniformly concentric shoulder provides clearance needed for assembly of panel locknut.



Series 5133: Positions and locks gear on shaft of water meter. Provides large bearing surface, permits use of shorter shaft for maximum assembly clearance.



Series 5131: Retains geared tensioning arm of radial power saw. Provides resilient end-play take-up of tolerances in cast base.



Series 5139: Secures handle lock of high-compression staple gun. Takes up tolerances in frame assembly, holds lock under spring tension. Two Series 5144 rings retain handle on hinge pin.

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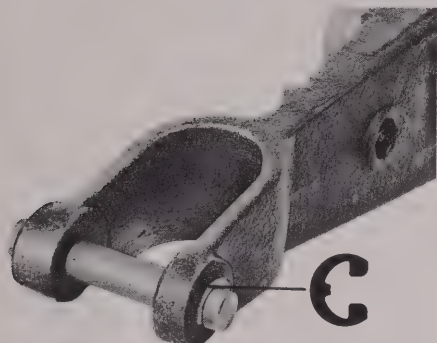
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WALDES**TRUARC®**

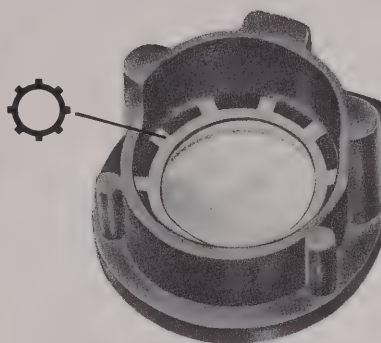
U. S. PAT. RE. 18,144. OTHER PATENTS PENDING

FIELD APPLICATIONS

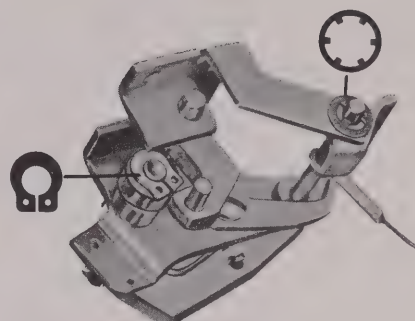
RETAINING RINGS



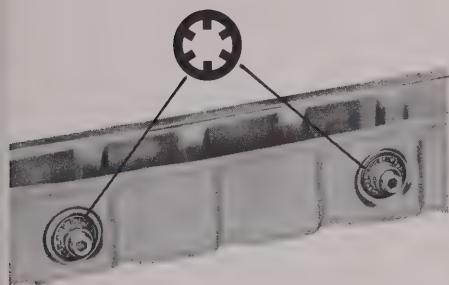
Series 5144: Two rings retain lifting rod in tractor yoke assembly. Original design used headed pin secured with cotter pin. Rings permit use of shorter straight rod.



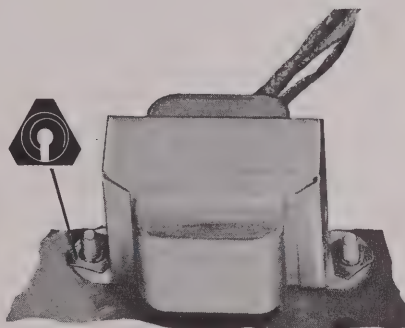
Series 5005: Locks lens in plastic eyepiece of film strip viewer. Ring takes up tolerances in diameter of housing, eliminates machining operations and speeds assembly of unit.



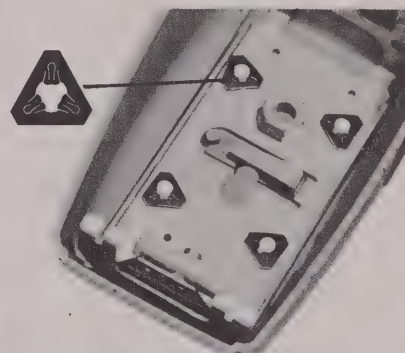
Series 5555, 5105: Retain rollers and hinge pins in dictating machine sub-assembly. Because no grooves are needed, parts are assembled rapidly without costly machining to close tolerances.



Series 5115: Two copper-plated rings lock tube connectors to automotive radiator housing. Plating assures good bond when connections are soldered to provide leak-proof assembly.



Series 5300: Retain transformer on mounting posts of overhead garage door control housing. Replace conventional nuts and lock washers, speed assembly of unit.



Series 5305: Retain name plate and indicator dial on control panel of electric heater. Accommodate tolerances of plastic studs, provide tight fit against housing.

ECON KIT

A NEW and IMPROVED RETAINING RING KIT containing

400 Truarc Cadmium Plated Rings

—84 Sizes—70% of Ring Sizes Used in Industry

Save—eliminate many purchase orders for small quantities of retaining rings—Get most sizes used on your equipment with only ONE order—in one shock-proof, plastic case. Sizes from $\frac{1}{4}$ to $2\frac{1}{2}$ inches in the three most used Truarc series of internal, external and universal Crescent® ring designs. All rings meet National Aircraft Standards NAS 669 and NAS 670.



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